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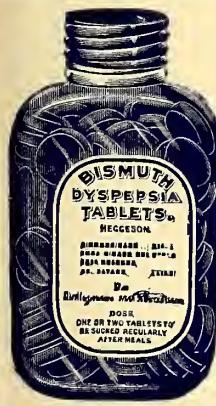
No. 2519.

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

SUBSCRIPTION WITH
DIARY 20/- PER ANNUM
SINGLE COPIES 9d.

MAY 19, 1928.

Vol. CVIII.



BISMUTH DYSPEPSIA TABLETS

(MEGGESEN)

SELL READILY ALL THE YEAR ROUND.

YOUR PROFIT IS RIGHT.

P.A.T.A. 1/3

Showcards, Showboxes,
and a Bonus of 1 dozen
with each gross.

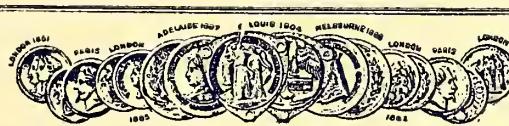
9/- dozen
108/- gross

Established over 130 Years.

CARRIAGE PAID.



MEGGESEN & Co. Ltd., Bermondsey, LONDON, S.E.16



BISMUTH CARBONATE B.P.

(EXTRA LIGHT)

Guaranteed to contain less than

Nitrate (NO₃) 0.15%
Chloride (Cl) 0.01%
Calcium (Ca) 0.001%

DENSITY.

1 lb. occupies a volume of 50 fluid ounces.

MAY AND BAKER LTD.

Manufacturing Chemists

Battersea,

London, S.W.8.



India—Head Office:

MAY & BAKER, LTD.,
7 Esplanade Mansions,
Calcutta.

Telephone - Calcutta 5339.

India—Warehouses:

MAY & BAKER, LTD.,
21 Tangra Road,
Entally.

Tel. Add. : "Wrical, Entally."

SALICYLIC ACID. B.P.



For more than 60 years
we have enjoyed a reputation
for manufacturing Chemicals
of Quality.

Here is yet another "Graesanto"
product, which we offer with
pride in having produced
such a unique, bold crystal
form of sheer beauty and
highest purity.

Appearance
reflects
Quality

The
GRAESSER-MONSAUTO
CHEMICAL WORKS
LIMITED
Ruabon N. Wales.

They never stop SELLING!



18 to a box. All the popular varieties as under :

	No.	P.J.F.
Antibilious ..	256	514
Apiol and Steel ..	611	7446
Back and Kidney ..	821	294
Blood and Skin ..	T184	37(13)
Castor Oil ..	715	9247
Cochia ..	332	522
Female ..	617	316
Gout and Rheumatic ..	848	193
Gregory ..	24	—
Hamilton's ..	128	—
Head and Stomach ..	618	9152
Indigestion & Wind ..	96	297
Little Liver ..	269	6214
Liver and Stomach ..	256	514
Neuralgia ..	178	7848
Quinine and Iron ..	T236	—
Rhubarb ..	104	—
Steel and Pennyroyal ..	617	316
Vegetable Liver ..	153	—

The Composite Showcard illustrated is supplied with 1 gross assortments, together with a streamer 12in. x 54in. Other cards available for single varieties.

3d. PILLS are always in season!

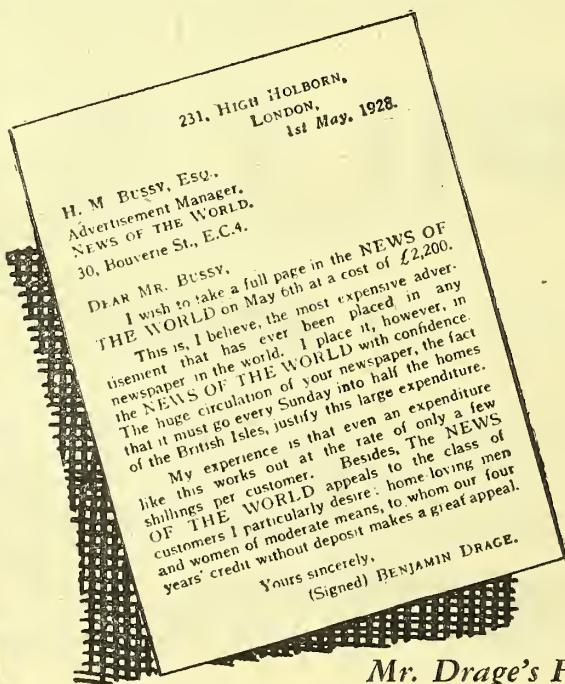
ARTHUR H COX & CO LTD
Manufacturing Chemists
BRIGHTON ENGLAND

Every Business Man should read these two pages

**The World's Record
Advertisement
which produced
record results** 

Mr. DRAGE'S EXPERIENCE

In the previous issue of this journal, the "News of the World" made the dramatic announcement that Mr. Drage, of the Famous Furnishing House, had booked a page advertisement in the "News of the World" at the record price of £2,200. Mr. Drage clearly states his reasons for this bold advertisement policy in the adjoining letter. In a further communication—reproduced in the opposite page—he shows how his confidence in the "News of the World" has been triumphantly justified.



Mr. Drage's First Letter

**The IMMENSE
PULLING POWER
of over 3,000,000
NETT SALE**

has even exceeded the expectations of so experienced an advertiser as Mr. Drage. The active circulation of the "News of the World" is such as to cover every conceivable outlet for the sale of all descriptions of merchandise. In effect, it covers the entire market each Sunday.

HOW BIG BUSINESSES ARE BUILT

For many months past the "News of the World" have consistently advertised advertising to manufacturers and distributors in all branches of industry through the medium of the trade and technical press, with the object of impressing that advertising is the cheapest form of selling and that the "News of the World" provides the most economical means of advertising. Mr. Drage's experience gives definite and conclusive proof of both these facts—particularly as to the latter.

Many of the most successful advertisers in the "News of the World" commenced with quite small spaces. Among them is Mr. Drage, who has just spent the sum of

£2,200 upon a one page insertion. As will be seen from the accompanying letter from Mr. Drage his bold policy was justified within a few hours of the appearance of the advertisement. It is worth your while to consider how this form of successful advertising can be applied to build your business.

The
NEWS of the
WORLD

will be pleased to discuss the problems of your proposition with you at any time.

DRAGE'S, LIMITED.
MANAGING DIRECTORS' OFFICE.

DIRECTORS:
BENJAMIN DRAGE (Chairman).
SIDNEY DRAGE.
F. C. TURNBENNY. MANAGING DIRECTOR.
JOHN DAVIS, C.A.
MORACE VICTOR CLOGG.

231 High Holborn
London, W.C.1.

X URGENT & IMPORTANT
BY HAND.

10th May, 1928.

The Advertising Manager,
Messrs. News of the World Ltd.,
30 Bouverie Street,
E.C.4.

THE HOUSE OF DRAGE.

I should like to congratulate you on the immense pulling power of your newspaper. Although I had provided additional staff in anticipation we are almost overwhelmed with enquiries from our full page advertisement of furniture you published on Sunday last.

Before eleven o'clock on Monday morning I had the privilege of welcoming at least a dozen customers who told me that the NEWS OF THE WORLD had brought them to us.

A glance through the immense mass of enquiries shows that every town and almost every village in the country is represented.

It was perhaps a courageous experiment to take the largest advertisement that British trade has known. But my confidence in the NEWS OF THE WORLD and my message to your readers has amply justified itself.

Yours truly,
PP DRAGE'S LTD.,

Drake

ALL COMMUNICATIONS TO BE ADDRESSED TO THE FIRM AND NOT TO INDIVIDUALS.

Mr. Drage's Second Letter

NINE REASONS WHY

YOU SHOULD ALWAYS INSIST UPON BUYING



PARAFFIN. LIQUIDUM, B.P.

(DALMAS)

- (1) It has the correct gravity—standardised to 890.
- (2) It has the correct viscosity—and never varies.
- (3) It is absolutely pure, tasteless, water white, and more than satisfies all the B.P. requirements.
- (4) It is carefully standardised to definite specifications.
- (5) It is absolutely constant, reliable and dependable, and gives the patient and physician the result expected.
- (6) It is recognised by the Medical and Pharmaceutical Professions as *the standard* for Medicinal Paraffin.
- (7) The decorated tins, bottles and showcards make an effective and attractive display—creating sales.
- (8) The pourer spouts of the drums are so convenient for filling bottles, etc.
- (9) The labels of the bottles are distinctive and stand for excellence of quality, enabling customers to easily recognise a brand which gives them satisfaction, and which they desire again and again.



IN ADDITION TO BULK SUPPLIES IN NEATLY DECORATED DRUMS, WE OFFER IN ALL SIZES OF BOTTLES (FLATS OR PANELS).

WRITE NOW

FOR ILLUSTRATED BOOKLET AND SPECIAL TERMS FOR CONTRACTS.

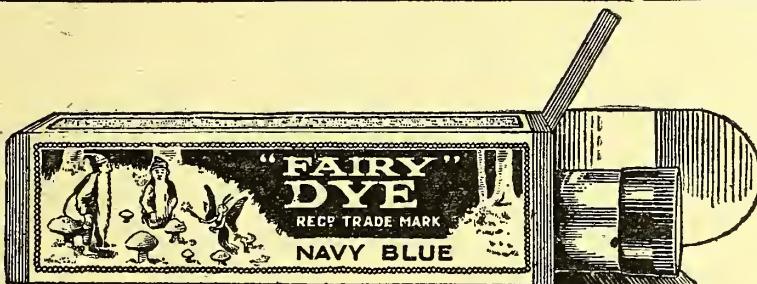
A. DE ST. DALMAS & CO., LTD.
LEICESTER

Also

6 Great Sutton St., LONDON, E.C.1, and 108/109 Middle Abbey St., DUBLIN

INDEX TO ADVERTISERS

Anglo-American Oil Co., Ltd. (Flit)	32	Cartwright, W. B., Ltd. (Moorland Aspirin Tablets)	7	Gardner, W., & Sons (Gloucester)	xxvi
Armour & Co., Ltd. (Medicinal Products)	12	Cephos, Ltd. (Headache Remedy)	xii	George, Ernest J. (Valuer, &c.)	Col. Supp.
Armstrong Cork Co., Ltd. (Corks)	xxiv	Christy, T., & Co. (Pysham Points Tea, Grips Pastilles)	34-xiii	Gibbs, D. & W., Ltd. (Toilet Preps.)	24-25
Association of Manfg. Chemists, Ltd.		Cooper Laboratory (Tablets, &c.)	Leader Page	Gill, Herbert, & Co., Ltd. (Scissors)	28
Cover-Col. Supp.		Corbett, A. F., & Co., Ltd. (Shop fittings)	Cover	Gilmont Products, Ltd. (New Mix Tooth Paste)	9-10
Autoway Co. (Weighing Machines)	16	Cox, Arthur H., & Co., Ltd. (Pills)	1	Glass Products, Ltd. (Bottles, &c.)	xxvi
Ayrton, Saunders & Co., Ltd. (Wholesale Druggists)	15	Cresswell Bros. (Branch International Sponge Importers)	29	Gollin & Co. Pty., Ltd. ("Aspro")	ix
Baiss Bros. & Co., Ltd. (Effer- vescents, &c.)	xiv	Curasol Sock Co. (Boric Socks)	xxiii	Gough, Kidston & Co. (Petroleum Jelly, &c.)	xxi
Bandoeng Quinine Factories	vi	Dalmas, A. de St., & Co., Ltd. (Liquid Paraffin)	4	Gower, John (Books)	Col. Supp.
Barker, R., & Son, Ltd. (Infants' Preservative)	xvi	Danto Rogetat & Cie (Enamelled Iron-ware)	xxvi	Graesser-Monsanto Chemical Works, Ltd. (Salicylic Acid)	Cover
Battie, J. C. M. (Vermin Killer)	30	Dearborn (1923), Ltd. (Toilet Preps.)	18	Grout & Co., Ltd. (Crêpe Bandages, &c.)	xxxxiii
Beecham Pills, Ltd. (Pills)	xiii	Debacq & Harrop (Toilet Preps.)	22	Hackett, S. E. (Film Overstocks)	Col. Supp.
Bemax Laboratories Vitamins (1928), Ltd.	xv	Dee Oil Co., Ltd. (Petroleum Jelly)	xx	Hall, Forster & Co., Ltd. (Vapourisers)	xvi
Bengué & Co., Ltd. (Dr. Bengué's Balsam)	xi	Denver Chemical Manf. Co., Ltd.	x	Haller Phillips, Ltd. (Glycerine)	ii
Berdoo & Fish (Valuers, &c.)	Col. Supp.	De, S. N. (Indian Drugs)	vi	Hampshire, F. W., & Co., Ltd. (Snow-fire Cream)	xxxxiii
Berg, E., Ltd. (Cash Tills)	Col. Supp.	Dick, W. B., & Co., Ltd. (Liquid Paraffin)	xxxi	Haskins (Shopfittings, &c.)	8
Bertrands Odourless Pessaries, Non-Greasy	xxxi	Dickeson, R., & Co. (Besorbon)	x	Henry, T. & W. (Calcined Magnesia)	x
Bidwells, Ltd. (Tooth Brushes, &c.)	31	Dudley & Co., Ltd. (Display Sets, &c.)	34-xvi	Herne, G. E., & Co. (Farina, Dextrine, &c.)	19
Blackie, Robert ("Spun" Ointments)	xi	Dupont, J., & Co. (Tooth Brushes)	34	Hill, T. (Bottle Washing Machinery)	31
Bob Martin, Ltd. (Dog Medicines)	30	Evans Sons' Lescher & Webb, Ltd. (Cupidol)	13	Hindes, Ltd. (Hair Brushes)	10
Boehm, Fredk., Ltd. (Nulomoline)	x	Fairy Dyes, Ltd. (Home Dyes)	5	Hobson, Trimble & Co., Ltd.	xxxxiii
Borax Consolidated, Ltd. (Borax)	ii	Farley, A., Ltd. (Shopfittings) Col. Supp.		Horner, L. A., & Sons (Drugs, &c.)	iii
Boxall, Smith & Co. ("Bismogenol")	xii	Fecher, M. J., Ltd. (Eye Shades)	31	Hovenden, R., & Sons, Ltd. (Pine Tar Shampoo)	
Bradford Technical College	xxix	Fink, F., & Co. (Gums)	34	Howards & Sons, Ltd. (Hydrogen Peroxide)	i
British Xylonite Co., Ltd. (Halex Toothbrushes)	28	Florian & Armand, Ltd. (Toilet Preps.)	18	Hubbuck, T., & Son, Ltd. (Oxide of Zinc)	iv
Burkett Sharp & Co., Ltd. (Chemicals)	iii	Ford, Shapland & Co., Ltd. (Sanitary Paper)	xxii	Iglodine Co., Ltd. (Iglodine)	xi
Burrough, J., Ltd. (Alcohol) Leader Page		Ford, T. H., Ltd. (Surgical Dressings, &c.)	xxii	Illingworth, T., & Co., Ltd. (Photographic Goods)	xxxxix
Burroughs Wellcome & Co. ("Vaporole" Compound)	35	Frankenberg, L. (Safety Razor Blades)	28	Irving's Yeast Vite, Ltd.	xii
Calyx Shaving Brush	23	Franklin, J. G., & Son, Ltd. (Soothers, &c.)	xxiii	Japan Menthol Manf. Co., Ltd.	viii
Carnrick, G. W., Co. (Endocrine Products)	xxxx		(Chemicals)	iii	
Carr & Co., Ltd. (Bath Rusks)	xvi		[Continued overleaf.		
Carter, R. E. (Plavic Photographic Film)	34				



FAIRY DYES

Mean Greater Turnover for You—and Absolute Satisfaction for Your Customers.

THERE is no more attractive line on the market to-day—there is no better seller—and no article has made larger strides in popular favour.

FAIRY DYES

are now sold in glass tubes, encased in smart, clean-looking "safety-first" cartons. They are retailed at 2d. each, made in 25 popular shades and colours, and are extensively advertised in the right publications.

You can *rely* upon Fairy Dyes—for prompt delivery in any quantities—for fresh stocks—for quick, easy-to-handle, clean turn over, and as tried favourites your customers are always satisfied. See that you are supplied without delay.

For Trade Terms and particulars write to

FAIRY DYES, LTD. 61 WELL ROAD,
GLASGOW.

London Depot - - - - 292 UPPER STREET, ISLINGTON, N.1.

INDEX—cont.

Josephs, Percy R. E. (Shopfittings) Col. Supp.	Napp, H. R., Ltd. ("Normacol," &c.) Cover-viii	Shadeine Co. (Hair Dyes) 34
Josephs, Philip, & Sons (Shopfittings) Col. Supp.	National Chemical Holdings, Ltd. (Appledoc) xiv	Shawyer, A. J. & Co. (Developing, &c.) xviii
Kerfoot, T., & Co., Ltd. (Mineral Spring) 17	National Union of Drug & Chemical Workers Col. Supp.	Sherley, A. F., & Co., Ltd. (Dog and Cat Medicines) 50
King, G., & Co., Ltd. (Foods) 51	Newbery, F., & Sons, Ltd. (Service) 50	Smith & Co. (Fly Catchers) 50
Langheck & Co. (Bottle Caps) xxvi	News of the World 2-3	Smith, T. & H., Ltd. (Chemicals) iv
Lantifils, Ltd. (Ess. Oils) 23	Nildé (Paris) Agency, Ltd. (Toilet Preps.) 18	Spencer Bros. (Puffs) 34
Lennon, Ltd. (South African Agencies) viii	Norwegian Cod Liver Oil xvii	Squire & Sons, Ltd. (Books, &c.) xviii
Lewis, H. K., & Co., Ltd. (Books) xxviii	Ogilvy & Co. (Cameras) xxix	Sterns, Ltd. (Oils, Petroleum, &c.) xix
Littie Laboratories, Ltd. (Hair Preps.) 22	Oppenheimer, Son & Co., Ltd. (Roboline) 8	Summer's Typhoo Tea, Ltd. Leader Page
Lofthouse & Saltmer, Ltd. (Thermal Liniment) xi	Orridge & Co. (Valuers, &c.) Col. Supp.	Surgical Hosiery Co., Ltd. xxii
London Rubber Co. (Surgical Rubber Goods) 34	Osborne, Garrett & Co., Ltd. (Winx Preparations) 28	Suttyle & Silverlock, Ltd. (Printers) xx
Lorimer-Marshall, Ltd. (Sunburn Lotion, &c.) 23	Osborne, James (Mixture for Epilepsy) xiv	Sydal Proprietary, Ltd. xiv
Lysol, Ltd. (Hind's Honey and Almond Cream, &c.) 21	Parke, Davis & Co. (Hydrogen Peroxide) v	Tatcho Tone Co. (Hair Preps.) 34
McCaw, Stevenson & Orr, Ltd. (Seccotine) xxii	Peek Bros. & Wiuch, Ltd. (Mattié Tea) Leader Page	Taylor, F. H., & Sons, Ltd. (Measures) xxiv
Marsden, C. C. (Valucr, &c.) Col. Supp.	Pharmaceutical Lanoline Co. (Lanoline) xviii	Thompson, John (Wholesale Drug-gists, 1921), Ltd. (Drugs, &c.) 6
Matthews, D., & Sons (Shopfittings) Col. Supp.	Phillips, R. W., Ltd. ("Kissinga" Pine Baths) xvi	Thornton & Ross, Ltd. (Ammonia) ii
Matthews Laboratories, Ltd. (Digitalis) Leader Page	Poth, Hille & Co. (Ceresine Wax) xviii	Tomlinson & Hayward, Ltd. (Eureka Weed Killer, &c.) 50
Maw, S., Son & Sons, Ltd. 11	Potter & Clarke, Ltd. (Catarrah Pastilles) 53	Toogood, Wm., Ltd. (Hair Preps.) 26
Mawson Filter Co. (Optimus Filters) xx	Ransom, W., & Son, Ltd. (Extracts, Tinctures, &c.) Cover	United Glass Bottle Manufacturers, Ltd. (Medical Bottles) xxv
Mawson, J. W., & Co., Ltd. (Capsules) xii	Reed, A. E., & Co. (Glycerine) vi	Wagner, R. V. (Bottle Caps) xx
May & Baker, Ltd. (Chemicals) Cover	Ridge's Food Co. (Infants' & Invalids' Foods) xvi	Warrick Bros., Ltd. (Chemicals) 56
Meade-King, Robinson & Co., Ltd. (Petroleum Jelly, &c.) xviii	Riley, J., & Sons, Ltd. (Hypo) ii	Warrington Chem. & Drug Co., Ltd. iii
Medical Supply Association, Ltd. (Dispensing Bottles, &c.) xxiv	Roberts' Patent Filling Machine Co. xxvi	Watts, J. (Safety Razor Blades) 22
Meggesson & Co., Ltd. (Bismuth Tablets) Cover	Robinson & Sons, Ltd. (Boxes) xxvii	Webster, T., & Co. (Disc Extractor, &c.) 10
Midgley & Parkinson, Ltd. (Yeast Preps.) xviii	Roebuck's Advertising Service (Wanie Blades) 23	Westminster College of Pharmacy xxix
Millar, A., & Co., Ltd. (Orange Wine) 34	Rowland, A., & Sons, Ltd. (Macassar Oil) 22	Wheeler & Huisking, Ltd. (Drugs, &c.) vi
Scrutton, O., & Co. (Nurse Harvey's Mixture) 31	Rudduck & Co. (Shopfittings) Col. Supp.	Whiffen & Sons, Ltd. (Emetine) Cover
Scurr, C. A. (Optical Tuition) 54	Seprrolin Co., Ltd. ("Carmex," &c.) 10	Whitaker & Co. (Hat Dyes, House-hold Dyes) 27

Telegraphic Address :
"DRUGS,
LIVERPOOL."

JOHN THOMPSON (Wholesale
Druggists 1921) Ltd.
27/35 DUKE STREET
LIVERPOOL

Telephones
1434 ROYAL
(5 lines).

The House for all Provincial Chemists

WE OFFER YOU OUR RAPID MOTOR, RAIL
OR STEAMER SERVICE—"SECOND TO NONE."

DRUGS GALENICALS
PHARMACEUTICAL PREPARA-
PACKED DRUGS TIONS
PATENT MEDICINES

PROPRIETARY ARTICLES
DRUGGISTS' SUNDRIES
PHOTOGRAPHIC SUPPLIES
TOBACCO AND CIGARETTES

All Drugs are guaranteed genuine Galenical and Pharmaceutical preparations, are manufactured in our own Laboratories from Finest Quality Drugs under rigid analytical control, and are guaranteed to conform to B.P. 1914 and B.P.C. 1923.

ASK US FOR PRICE LISTS

Specify "Moorland" when buying Aspirin Tablets

The branded line that will help you to make money and retain goodwill

Here is your opportunity to sell a guaranteed and branded Aspirin Tablet which will protect your business and safeguard the profession of Pharmacy. Moorland Brand is sold with every confidence and carries our full guarantee of purity in every packet. The confidence it inspires in the purchaser undoubtedly creates goodwill for you.

We ask you to join us in making a definite stand to prevent your legitimate business being taken out of your hands. Sell this branded Aspirin and retain "Pharmacy for the Pharmacist," thus preventing your Aspirin trade passing into the hands of other traders. Why not make a start with the Special Offer below and help us to protect your sales? Place your order now.

Accept this profitable bonus offer.

YOUR COST £1-17-6 YOUR PROFIT £1-19-9

Moorland Aspirin Tablets are the safe and reliable brand for you and your customers

Display Outers & Showcards sent with every order

W. B. CARTWRIGHT LTD. RAWDON NEAR LEEDS

PEOPLE NEED Roboleine

THE FOOD THAT BUILDS THE BODY

IN SUMMER

because it makes up deficiencies in diet and makes good the extra energy spent. We are telling the public this every week in the great national dailies and magazines in conformity with our policy of LOGICAL, NON-STOP ADVERTISING.

Write for generous Window Display Terms.

OPPENHEIMER SON & CO., LIMITED

179 Queen Victoria Street, London, E.C.4.

Manufacturers of "MAGLACTIS," the Pure Hydrate of Magnesia with the continuous action.

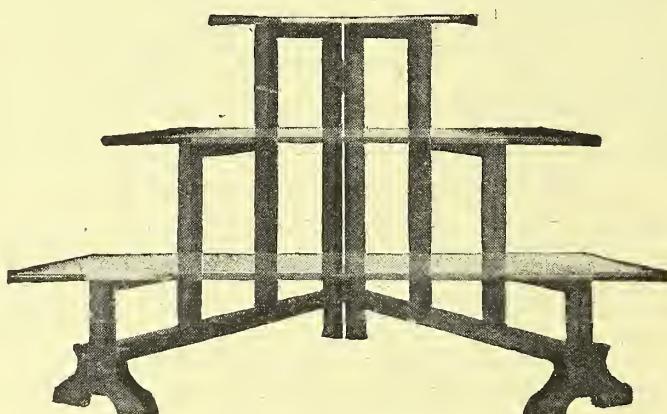


CD 705.

Glass Pedestals.

	4"	6"	8"	10"
8/9	10/-	14/6	21/-	
12"	14"	16"	18"	
25/-	30/-	40/-	45/-	

25/- 30/- 40/- 45/-
52/- per Doz.



No. CD 2253.

An excellent Stand for centre or corner display.

Made in Solid Oak, with Plate Glass Shelves, polished all round, 1 each 30" x 6", 24" x 6", and 14" x 6". 18" high x 18" deep. Each complete 25/-



CD 711.

Solid Oak Pedestal.

	6"	9"	12"	15"
2/3	2/8	3/1	3/6	
18"	21"	24"		

3/11 4/4 4/9 each.

Write or call for Illustrated Catalogue C9 to
Display Fittings Dept.,
32/34 Old St., London, E.C.1.

HASKINS

DISPLAY DEPT.,
32/34 OLD STREET, LONDON, E.C.1
'Phone : Clerkenwell 3405/6.

Large Stock of Plate Glass Shelves at greatly reduced prices. Please forward us your enquiries.

All enquiries promptly attended to.

Head Office and Works : Walthamstow, London, E.17.
Manchester Showrooms : 1 New Brown Street.

Orders of £2 and upwards carriage paid London area.

FIRST PRIZE**SECOND PRIZE****NEW
MIX****£100****£50****5 CONSOLATION PRIZES
OF ONE GROSS OF NEW MIX****CONDITIONS OF ENTRY**

1. Window Display to be for a period of a fortnight.
2. Applications for window display material to be made on the printed form below before June 30th, 1928.
3. Orders for stock will be supplied (subject to the present 90 days' special bonus terms) before June 30th, 1928.
4. Display to commence at any time up to August 1st, 1928.

The First Prize of £100 will be awarded to the chemist making the best Window Display, to be decided from a photograph of the window to be supplied by the chemist. The decision of the Directors of Gilmont Products, Limited to be final. Size of window does not necessarily mean a better window. A small window arranged in a meritorious and attractive manner will stand an equal chance of winning a prize.

The Second Prize of £50 will be awarded to the chemist with the next best Window Display.

Fill in the coupon NOW and give your New Mix business an added impetus and win a cash prize as well.

COUPON

To GILMONT PRODUCTS, Ltd., 35 Crutched Friars, LONDON, E.C.3

Please send me Window Display Matter which I understand entitles me to compete in New Mix Window Show Cash Prize competition. A two weeks' full—or half—Window Display will be made commencing.....

Name

Address

.....

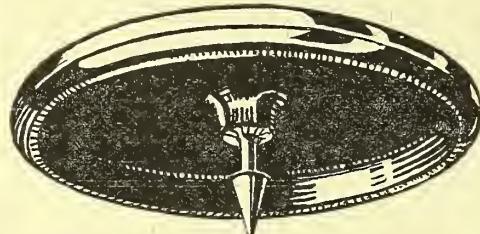
The SEMPROLIN Co. Ltd.

(Having long since acquired the Wm. Browning Co.)

Carmex House,
18 LEATHER LANE
LONDON, E.C.1,

invite all wholesale and retail Chemists to examine their stocks of "Semprolin" Emulsions and "Carmex" Infants' Mixture, etc., and to communicate direct should it be found that any stocks may, through age or otherwise, be out of condition. This action is rendered advisable as extensive propaganda work is now in progress amongst the medical profession & general public.

The "PRESTO" DISC EXTRACTOR & MILK BOTTLE COVER SIXPENCE EACH.



R.D. 735997. Patent Pending.

SELLS AT SIGHT

A Necessity in every Home. Will last for years.

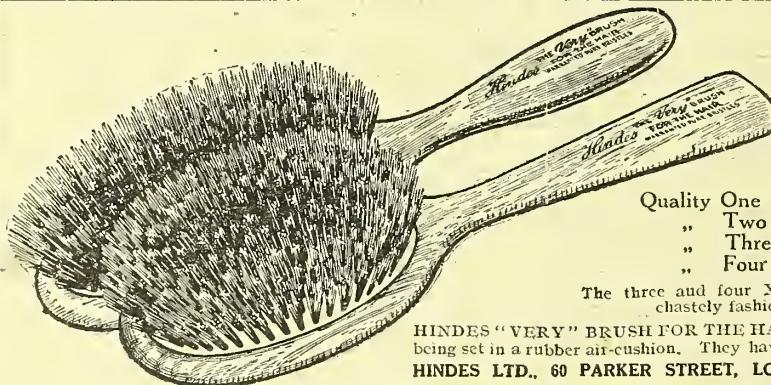
HYGIENIC. INDESTRUCTIBLE.

IN NEAT DISPLAY BOXES 4/- CONTAINING ONE DOZEN COVERS.

FROM YOUR WHOLESALE HOUSE, OR

T. WEBSTER & CO.

Diamine House, Middle Lane, Hornsey, London, N.8



HINDES "VERY" HAIR BRUSH

Quality One X	Sold at 7/6d. each.	TRADE PRICE
" Two XX	10/6d. "	
" Three XXX	15/- "	
" Four XXXX	18/6d. "	

The three and four XXXX grade is made in Ebony or Rosewood, chastely fashioned in both oval and circular bodies.

HINDES "VERY" BRUSH FOR THE HAIR is guaranteed pure bristles, the multiple tufts being set in a rubber air-cushion. They have been known to the trade for nearly 40 years
HINDES LTD., 60 PARKER STREET, LONDON, W.C.2. :: Works: BIRMINGHAM

"THE GLEAM OF YOUTH
ON EVERY TOOTH"



SEE
PRECEDING
PAGE.

GILMONT PRODUCTS, Ltd.
35 CRUTCHED FRIARS, LONDON, E.C.3

Maw's Page



Maw's Packed Powders

Nursery Powder. Violet Powder. Fuller's Earth.

Attractively packed, low in price and of reliable quality, the series has proved a ready seller and one that shows a substantial margin of profit. It consists of Nursery Powder (Zinc, Starch and Boric), Violet Powder and Fuller's Earth, each supplied in tins in three sizes, and packets of one size only. Medium size tins are packed in display outers containing one dozen tins.



PRICES :

Packets :	Weighing approximately 2 ozs., per gross, 10/6					
Tins : Small	-	-	-	-	-	16/-
Medium	-	-	-	-	-	36/-
Large	-	-	-	-	-	48/-

Special terms for quantities.

*If you do not already stock this series
send us a trial order right away.*

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.





*"Every process, from kill to finished product,
controlled in the Armour Laboratories."*



of interest to the
PHARMACIST

CORPUS LUTEUM

LIVER

ORCHITIC

OVARIAN

WHOLE & RESIDUE

PARATHYROID

PITUITARY

WHOLE GLAND
ANTERIOR LOBE
POSTERIOR LOBE

SUPRARENAL

WHOLE GLAND & CORTEX

THYMUS

THYROID

B. P.
U. S. P. 0·2%
SPECIAL 0·3%

AMPOULES, TABLETS,
CAPSULES, LIQUORS,
POWDERS

**INTEREST - ARRESTING
COUNTER PACKAGES
WITH SHOW CARDS.**

PEP-O-LAC

For Indigestion and Dyspepsia
and

Prepared from the Natural Digestive
Juices.

COSTS 9/6 per Box of 12 Bottles.
Subject to usual discount.

Sufficient tablets for ONE-WEEK'S Treatment.

SELLS at 1/3

STRENGTH OVALS

A Male Brain & Nerve Stimulant

containing

Lecithin, Damiana, ORCHITIC.

COSTS 9/6 per Box of 12 Bottles.
Subject to usual discount.

Sufficient tablets for ONE-WEEK'S Treatment.

SELLS at 1/3

LABORATORY DEPARTMENT

ARMOUR AND COMPANY



QUEEN'S HOUSE KINGSWAY
LONDON, W.C.2.

TELEGRAMS: ARMOSATA—WESTCENT, LONDON.

TELEPHONE: HOLBORN 6921.



CUPIDOL



Cupidol is not only a preventative against insect bites but it gives instant relief. It is non-poisonous, non-greasy and is pleasantly perfumed.

Price in Great Britain:
Wholesale - 9/- doz.
Retail - 1/3 each.

Evans'

EVANS SONS LESCHER & WEBB, LTD.
LIVERPOOL & LONDON

WOOLLEY'S

for

COMPLETE
SATISFACTION

in

EVERY DEPARTMENT

Galenicals · Drugs · Sundries
Proprietary Articles

EFFICIENT SERVICE
PROMPT DELIVERY

JAMES WOOLLEY, SONS & CO. Ltd.

Manufacturing Chemists

VICTORIA BRIDGE, MANCHESTER

That's what I call a sensible idea

A MAN'S HAIR CREAM



THE CREAM is unobtrusively perfumed, and ensures a well-groomed appearance from morn till night.

In three varieties: Non-oily, Oily and Extra Oil, to suit every type of scalp. Embodies approved nutritive ingredients for promoting hair-health.

THE BOTTLE. Look at the picture! See how the bottle lies snugly in the hand; observe how the little finger supports the bottle, and the thumb finds a natural position on the sloping shoulder. The bottle that invites a shake! Have you ever tried to get Hair Cream through a sprinkler top? Here you have a full half-inch vent instead of a pin-prick sort of outlet. And the cap! Big enough to handle, easy to screw, difficult to lose. At every point, "a MAN'S bottle."

THE FINISH. Finely designed labels used in distinctive manner: protected and enhanced with cellophane.

THE SHOWCARD. A virile appeal to the well-groomed man.

HIBISCUS HAIR CREAM



PRICES

Three Varieties

Per doz. 9/0

6 doz. at 8/6

12 doz. at 8/0



Made by AYRTON'S of LIVERPOOL

The CHEMIST'S

LATEST DISCOVERY

— THE —

Autoway

“BAROMETER OF HEALTH”

The handsome and unique weighing machine that compels attention and attracts customers.

PENNIES IN THE SLOT

PAY FOR THE

Autoway

It is a 20%-150% Investment.

A small Deposit installs the “Autoway.”

Balance in convenient Monthly Payments.

It will pay YOU—

TO SEND FOR ILLUSTRATIONS AND PARTICULARS. DEMONSTRATIONS ARRANGED AT YOUR OWN PREMISES, IF DESIRED.

Autoway Co.

13 WELLINGTON ST., Telegrams: “Autoways.”
Telephone: Central 59.

AGENTS AT

LONDON LIVERPOOL MANCHESTER
SHEFFIELD LEEDS NEWCASTLE
BELFAST DUBLIN ETC.



The AUTOWAY stands 4 ft. 9 in. high
(exclusive of detachable mirror).

It is portable, weighing 100 lb. Body-work of metal with cellulose grained mahogany finish. It has a silvered dial with engraved lettering, this being framed with a chromium-plated, untarnishable rim. The platform is in coloured mosaic. AUTOWAY weighing capacity, 20 stone.

EVERY “AUTOWAY” IS GUARANTEED.



The "Chemists' Own"



RETAIL
PRICES
1/- & 2/-
(P.A.T.A)

Not supplied to
the grocery trade.

The superiority of
"Mineral Spring"
is not a vague gener-
ality but something
that can easily be recog-
nised by Pharmacists and
their customers. The
prolonged effervescence,
the crystal clear sparkle and the
excellent keeping properties are
points in which we welcome
comparison with rival products.

Fifty of the new 'Mineral Spring'
booklets "Comi-Cartoons of
Sport," showcard and window
display (while the supply lasts)
with orders of 4 dozen.

Kerfoot Quality is Chemists' Quality

THOMAS KERFOOT & CO LTD
BARDSTLE VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

C/451

COPYRIGHT

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ..	10/-	1/-
A complexion soap.		
PROLACTUM ..	10/-	1/-
For the lips.		
PARSIDIUM JELLY ..	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE		
BLOSSOM ..	22/6	2/6
A dressing cream.		
BORANIUM ..	22/6	2/6
A hair tonic.		
CLEMINITE ..	22/6	2/6
For a face lotion.		
COLLIANDUM ..	22/6	2/6
For a face tint.		
PERGOL ..	22/6	2/6
A deodorant.		
TEKKO PASTE ..	22/6	2/6
Camphor cream.		
STALLAX ..	13/6 22/6	1/6 2/6
For a shampoo.		
JETTALINE ..	31/6	3/6
For clearing the skin.		
PHEMINOL ..	36/-	4/-
A depilatory.		
MENNALINE ..	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ..	18/- 31/6	2/- 3/6
A face cream.		
STYMBOL ..	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ..	22/6	2/6
Hair-curling fluid.		
BARSYDE ..	22/6	2/6
Dandruff eradicator.		
TAMMALITE ..	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ..	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ..	22/6	2/6
For whitening the hands.		
COCONOIDS ..	31/6	3/6
For figure development.		
SIPOLITE ..	18/-	2/-
A new depilatory.		

The Products of

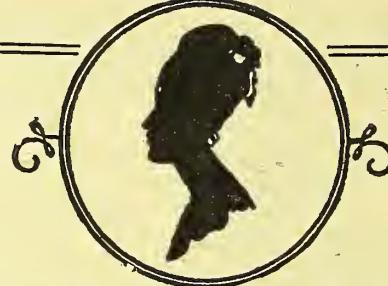
Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES ..	36/-	4/-
For obesity.		
SOFT PALERIUM ..	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH ..	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

FOREIGN AND COLONIAL DEPOTS AND AGENCIES.

South Africa: LENNON, LTD., Cape Town, etc.
SIVE BROS. & KARNOVSKY, LTD.,
India: FRAMJEE & SON, Bombay. Johannesburg
A. L. CHOUDRY, Calcutta.
New Zealand: SHARLAND & CO., Auckland and Wellington
Holland: N. V. v/h HENRI SANDERS, Amsterdam.
Denmark: KARL SCHULTZ & CO., Copenhagen.
Sweden: ENEQUIST HOLME & CO., A/B, Stockholm.
Irish Free State: MAY, ROBERTS & CO., LTD., Dublin



Nearly 10/- in the £1
on Selling Price.

Exceptional quality, remarkable pro-
fit, consistent advertising make

Armand
TOILET AIDS

a welcome line to all Toilet Goods
counters,

Have you a display on your counter?
If not, send for prices and full
particulars now—for you can increase
your Toilet Goods profits!

FLORIAN & ARMAND, Ltd.
Queensway, Fonders End, Middlesex.

A new Nildé sifter box

(HANDBAG SIZE)

Modernised and improved, this extra flat
sifter box with puff is of new design out-
side and in, leak-proof, and the powder
cannot patch or break. It contains as
much powder as the well-known red and
gold striped box, perfumed with our new
creation, l'Ille Heureuse.

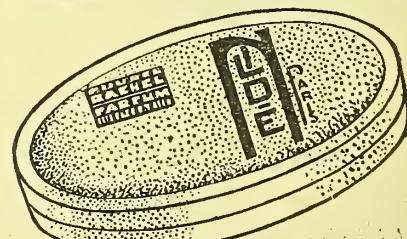
33 1/3%

discount off
selling price.

In 7 shades:—
rachel, naturelle,
ocre rose, rose,
basanée,
indienne,
blanche.

1/-

P.A.T.A.



Distributed in
the U.K. by
BROOKS & WARBURTON, LTD.
40-42 LEXINGTON STREET, W.1.

*Manufacturing Chemists
and all users of*

Farina, Dextrine, Maize Starch, &c.

should investigate the merits of the



*We are prepared to submit adequate samples
so that users may make full tests for themselves.*

*Whatever your requirements we have a grade at a
price to suit you. Send at once for testing samples.*

*We have built up our trade by strict adherence to purity, uniformity
of quality and prompt deliveries. Every Bag Guaranteed.*

Enquiries Invited.

G. E. HERNE & CO.
11 JOHN ST., LONDON, E.C.3.

Phone: Royal 2159. Wires: "Pulverate, London."
And at LIVERPOOL, NOTTINGHAM, EDINBURGH & CARDIFF.

ESTABLISHED 1885.

PINE TAR WET SHAMPOO

"MEDICATED"



*M*anufactured throughout at our Factory from PURE Selected Vegetable Oils. Highly recommended in cases of Dandruff and kindred troubles.

Still the only Tar Shampoo on the Market that is clear and of a syrupy consistence.

A valuable hair preparation which you can sell with confidence under your own name

No. 4755 (as illustration)

10/6 per doz.

Name and Address free for
6 doz. Orders.

R. HOVENDEN & SONS, LTD.

LONDON : 89-95 CITY ROAD, E.C.1

Telephone : CLERKENWELL 7601 (3 lines).

and

29-33 BERNERS STREET, W.1

Telephone : MUSEUM 2810 (3 lines).

Prices subject to 2½% cash discount.

HINDS.

Honey & Almond

CREAM

New Terms!

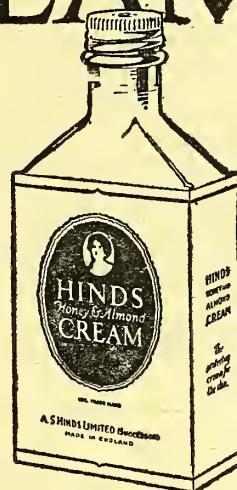
*Large Size Now
only 20/- Per Doz.*

*Retail Price
Until July 15th
3/- per Bottle*

On July 15th, 1928, the price of this 3/- 4½ oz. bottle to the public will be reduced to 2/6.

Bigger business than ever is bound to flock in as a result of this increased value.

The 4½ oz. bottle contains four times the amount of the small 1/- size.



In addition we are making you a special Summer "Sunburn" Offer.

The efficacy of Hinds Cream for Sunburn will be the main theme of the Summer campaign.

Advertising in "The Daily Mail" and popular magazines will tell the public of this value.

ORDER YOUR SUPPLIES NOW AT THE NEW REDUCED TERMS.

Write for Special Summer Sunburn Offer
Closing June 30th.

LYSOL LIMITED, RAYNES PARK, S.W.20,
Distributors.

the original combined Cream and Powder

la VELOUTY

de DIXOR Paris



The advertised line that you are asked for.

NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES :—	Full size pot	21/- doz.	RETAIL 2/9
Super tube	22/- "	"	3/-
Large tube	14/- "	"	2/-
Medium tube	7/- "	"	1/-
Handbag tube	3/- "	"	6d.

Made in four shades :

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the Sole British Agents:

DEBACQ & HARROP, 68 Newman St., Oxford St., London, W.1

YOUR BEST ADVERTISEMENT IS RECOMMENDATION

THIS is the reason why you should introduce "LITTO" Patchoid and Patchoid Cremard, the successful and recognised treatment for that troublesome disorder of the hair, Bald Patches.

This treatment leads to more enthusiastic recommendation than any line a Chemist supplies, because those troubled are ever grateful to you for introducing a speedy remedy, but this treatment for Bald Patches is not only effective, but one which pays to introduce, as you will see from the example below.

Litto Patchoid, Patchoid	Profit on doz.	Profit on doz.
48s. per doz.	Cremard, (14 bottles to	(14 pots to doz.)
Retail, 5s. 6d.	20s. per doz.	Patchoid
	Retail, 2s. 6d.	Patchoid, £1 90
		Cremard, 15s.

Total profit on order for £2 8 0 is £2 4 0.

Send a trial order and make a display in your window or inside your premises, together with one or two of our convincing photographic showcards, and note how quickly you are ready to repeat.

These goods can be obtained from all the leading Wholesale Houses or direct.

THE LITTO LABORATORIES
29, Highbury Grove, London, N.5.

For 135 years

Rowland's Macassar Oil has been a favourite dressing for the hair. It keeps the hair healthy, and prevents the encroachment of greyness and baldness.

Of all Wholesalers.

Retail

3/6, 7/-

& 10/6

P.A.T.A.

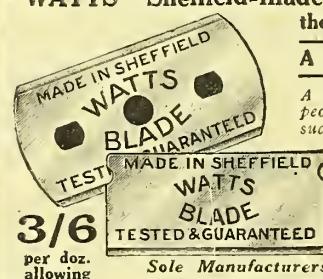
A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1

AMOT

Assist British industry by recommending the 'WATTS' Sheffield-made Safety Razor Blade, the blade of super-keenness.

A counter display will help.

A user writes: "Can't understand people buying foreign blades when such as yours are obtainable."



3/6

per doz.
allowing
50% PROFIT
on cost for
the dealer.

Sole Manufacturers: JOHN WATTS,

Dept. 3, LAMBERT WORKS, SHEFFIELD.
London: 18 SOHO SQ., W.1. Phone: Gerrard 1306.
Established over 150 years.

12 Perfect Blades
in Every Dozen

For Gillette-type and
Autostrop-type holders



—Lorimer-Marshall Ltd.—

FOR

PACKED GOODS FOR SUMMER TRADE

Sure Sales and Handsome Profits

*The Original House for Chemists'
own name Packed Goods*



Packers of Proprietaries to the trade

*Your Enquiries will receive our Prompt
Attention.*

LORIMER-MARSHALL, LTD.
12 TOWER HILL, LONDON, E.C.3



Sell every Man the NEW
DIMPLE-HEADED Shaving Brush!

CALYX

REGD. TRADE MARK.

157 STANSTEAD ROAD, LONDON, S.E.23



BETTER than EVER!
BIG PROFITS
QUICK SALES
GOOD STOCK
SELLS the Goods!

THE EDGE NONE CAN LICK'

Obtainable from all Leading Wholesalers.
Inquiries from Genuine Wholesalers only are Invited.

DEPT. C.D. "WANIE" DISTRIBUTORS:

c/o ROEBUCK'S Advertising Service
CRAVEN HOUSE - KINGSWAY, W.C.2

Established 1795.

LAUTIER FILS

Works: GRASSE (France) & BEYRUT (Syria).

Essential Oils Synthetics.
All Raw Materials for Perfumery.

Absinth	Laurel
Almond, bitter,	Lavender
Angelica	Lemon
[S.A.P.]	Mace
Basil	Melissa
Bay	Neroli big and Syn.
Bergamot	Orange
Bois de Rose femelle	Otto de Rose
Cajuput	Patchouli
Caraway	Peppermint
Cinnamon	Rosemary
Cloves	Rue
Copaiaba	Sandalwood
Costus	Spike Lavender
Cubeb	Tansy
Fennel	Tarragon
Geranium	Thyme
Honey	Vetivert
Hyssop	

Olive, Peach Kernel, Sweet Almond Oils
Floral Waters.

Wholesale and Export only.

LAUTIERFILS, Ltd., 4 Denman St., London Bdg., S.E.1
Tel. Add: "LAUTIER, PHONE, LONDON." Telephone: Hop 2819.

Make the most of Gibbs



5% Bonus

if you display the "Daily Mail" Page

On May 24th, Empire Day, more than two million readers of the "Daily Mail" will see the Full Front Page advertisement here reproduced. This advertisement will not only stimulate the demand for Gibbs Dentifrice but will also sell Gibbs Empire Boxes in huge quantities.

Instead of supplying these boxes direct to the public, we are giving them to you in the form of a Free Bonus thus:—

With each order for Gibbs P.A.T.A. Lines value £3 we give you absolutely free six boxes larger orders pro rata. Since the advertised price is 6d. each, you make an extra 10/- clear on every £10 order. The only condition is that you display in a prominent position the "Daily Mail" page for at least two days including May 24th.

The "Daily Mail" page is part of a campaign that will run throughout the Summer months, including large sized advertisements in the principal National and Provincial Newspapers and Magazines. Each advertisement will feature prominently Gibbs Empire Box — 1/- value for 6d. — The emergency coupon is provided only to be used when the retailer is out of stock.

D. & W. GIBBS LTD.,
LONDON, E. 1.

Gibbs Toilet

Big Summer Campaign

50% Profit

on Gibbs Empire Boxes

You are bound to be asked for many more boxes than can possibly be covered by the Bonus allowance, and in order to meet this demand and incidentally to give you a good profit, we will supply Gibbs Empire Boxes at 48/- per gross nett. The selling price is 6d. each—a clear profit of 50% on cost.

Remember Gibbs Trial Boxes have always been extremely popular. The handsome appearance and the undoubted value of the contents will make them sell at sight.

This offer is limited to 100,000 boxes. Place your order now so that you may not miss this Empire Day opportunity—50% profit is well worth picking up.

Attractive Display Set

With every order for one gross of Gibbs Empire Boxes an arresting Display set is supplied. This consists of a Display Card to hold the Empire Box, Window Streamers, and paste-on-arrows, to focus attention upon your Gibbs display. This is in addition to the usual supplies of display material sent free with such goods as may be ordered.



Contents of Gibbs Empire Box

(Actual Retail Value 1/-)

A sample each of:—

Gibbs Dentifrice

Gibbs Dental Cream

Gibbs Shaving Cream (3d. Demonstrator size).

Gibbs Cold Cream Soap

Gibbs Cold Cream Foam (Full 3d. size)

Preparations



3372



TOOGOOD'S
PREPARATIONS
FOR THE HAIR



4391

		Packed in Panel White Flat as per illustration 3372.			Packed in N.P. Domed Sprinkler Cap Bottle as per illustration 4391.		
		2½	4	8 oz.			8 oz
2539	Bay Rum	6/6	8/6	13/6	...	15/6	doz.
3372	Bay Rum and Cantharides	6/6	8/6	13/6	...	15/6	„
4420	Bay Rum and Capsicum Hair Tonic	6/6	8/6	13/6	...	15/6	„
3373	Bay Rum and Quinine ...	7/6	10/6	17/-	...	20/-	„
3374	Bay Rum, Rosemary and Jaborandi Hair Tonic ...	6/6	8/6	13/6	...	15/-	„
4421	Bay Rum, Rosemary and Quinine Hair Tonic ...	7/6	10/6	17/-	...	20/-	„
4140	Rosemary and Camomile Hair Wash	6/6	8/6	13/6	...	15/6	„
3599	Rosemary and Cantharides Hair Wash	6/6	8/6	13/6	...	15/6	„
4143	Rosemary and Quinine Hair Wash	7/6	10/6	17/-	...	20/-	„
4434	Rosemary, Capsicum and Quinine Hair Tonic ...	7/6	10/6	17/-	...	20/-	„
3700	Rosemary, Jaborandi and Quinine Hair Tonic ...	7/6	10/6	17/-	...	20/-	„

Customer's Name free on orders of 3 dozen of a kind—assorted sizes.

MANUFACTURED BY

WILLIAM TOOGOOD LIMITED
77 SOUTHWARK STREET - - - LONDON, S.E.1

£105

for the best

"LUTON" AND "AURORAL"
WINDOW

Enter for

WHITAKER'S WINDOW DRESSING COMPETITION

1st PRIZE

100 Guineas
AND 20

2nd PRIZE

50 Guineas

PRIZES OF 5 GUINEAS EACH

3rd PRIZE

25 Guineas

'LUTON'

STRAW HAT DYES.

The outcome of 50 years' accumulated experience in household dyes. All colours and in demand practically all the year round. Highly efficient dyes, and appeal to every woman on economical as well as fashionable grounds. Supplied in dull or glossy series.

AURORAL

COLD WATER DYES.

Just the thing for Dance Frocks and Dainty Lingerie.

Good trade should be done in this line now by recommending it to your customers. The finest cold water dyes in the world for delicate and costly fabrics. Good results obtained even at the first trial. A certain seller.

CONDITIONS OF COMPETITION

All Window Shows must be put in between now and June 30th, 1928, and remain on exhibition for a period of not less than seven days.

The Display can be made to advertise exclusively "Luton" Straw Hat Dyes or "Auroral" Cold Water Dyes, or, if preferred, a combination of both.

Each scheme must represent the competitor's original ideas and each entrant must provide his own materials. N.B.—The Standard "Auroral" Window Show must not be used for this competition.

For the purpose of entering the competition all Competitors must secure a photograph of their Window with their name and address written plainly on back and submit it, together with a covering letter, indicating when the Display was given.

All entries must be received by Whitaker & Co., Kendal, not later than SATURDAY, JULY 7th.

The list of Prize Winners will be announced in the editions of the "Pharmaceutical Journal" and the "Chemist and Druggist," published on July 28th.

No correspondence can be entered into with regard to the above Competition and the judges' decision must be accepted as final and binding on all competitors. The receipt of each entry shall be regarded as acceptance of the above.

'LUTON'

HOT WATER FABRIC DYES.

The best hot-water dyes for all materials, giving perfect results with the minimum of trouble. As with all other Whitaker products, they show a good profit.

VELT

THE NEW CLEANER.

A cleansing preparation for removing stains, grease, dirt, etc., from clothing, upholstery, curtains, etc., and renovating them. VELT is a non-inflammable liquid and is supplied in screw tins, of which three dozens are contained in an attractive outer. A Whitaker product, which is selling well. It is available in 5-oz., 10-oz. and 20-oz. tins for the convenience of bigger users.

WHITAKER & CO., Dye Specialists for Chemists, KENDAL

Telegrams: "Dullette, Kendal."

Established 1878.

Telephone 214.

London Office and Showrooms: 16-18 BEAK STREET, REGENT STREET, W.1

Telephone: Regent 3825.

A PARCEL OF PROFIT

The Introductory Parcel enables chemists to test Halex without putting in a big stock. It contains the mechanical salesman—the famous red and black showcase that helps customers make up their minds which brush to buy.

THE PRICE OF THE PARCEL!
40/- is the outlay. £3 6s. is the return
60% profit!

The parcel contains:

The handsome glass-fronted display case, containing 1 doz. Halex brushes—2 each of six patterns.

Six handy boxes of half-dozen Halex brushes in six different patterns, making 4 doz. in all. A striking transparency and a showcard for window display.

Order it from your Wholesaler to-day.



**PUT THE
RED AND BLACK
HALEX SHOWCASE
ON YOUR COUNTER**

THE BRITISH XYLONITE CO. LTD., HALE END, E.4

WINX

THE HARMLESS WATERPROOF EYELASH DARKENER
IN BLACK OR BROWN

Per 26/- dozen. Retail 3/3 each

CREAM WINX

FOR THE LASHES AND EYEBROWS
IN BLACK OR BROWN

Per 26/- dozen. Retail 3/3 each

CAKE WINX

COSMETIC FOR DARKENING
IN BLACK OR BROWN

Per 26/- dozen. Retail 3/3 each

PERT

THE WATERPROOF ROUGE

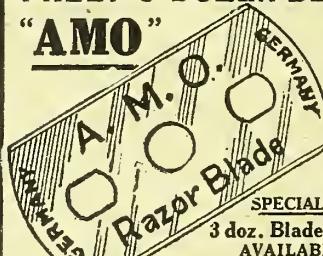
Per 26/- dozen. Retail 3/3 each

MADE BY THE ROSS CO., NEW YORK.

Sole Distributing Agents:

OSBORNE, GARRETT & CO., LTD.
London, Birmingham and Glasgow.

**FREE! 3 DOZEN BLADES. FREE!
"AMO"**



More, refunded
if not satisfactory.
Send for Free
Testing Sample.
3 doz. Blades free with each Gross.
AVAILABLE TO JUNE 1, 1928.

BLADES

8/- Gross

POST PAID.

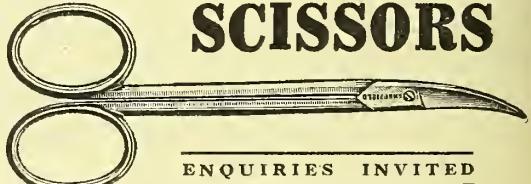
THEY SHAVE!
THEY SELL!

SPECIAL INTRODUCTORY BONUS

Telephone No.: AVENUE 8846. Telegrams: UZE CARNOS Ad. London.

WHOLESAVERS PLEASE WRITE FOR SPECIAL TERMS.

SCISSORS



ENQUIRIES INVITED

GILL, HERBERT & CO., Ltd.

CUTLERY MANUFACTURERS,
Wheeldon Street, SHEFFIELD

Telegraphic Address: "CRESSWELL, HOLB., LONDON."

Telephone: No. 1432 Holborn.

THE SPONGE HOUSE

INTERNATIONAL SPONGE IMPORTERS, LIMITED,
CRESSWELL BROTHERS BRANCH

Sponge Importers, Exporters and Merchants, and Chamols Leather Dressers,
18 and 19 RED LION SQUARE LONDON, W.C.1
WITH THE LARGEST STOCKS OF ALL SPONGES IMPORTED DIRECT BY US FROM THE FISHERIES AT LOWEST PRICES.
WE INVITE COMPETITION.

UNBLEACHED MEDITERRANEAN SPONGES in Original Cases.

THE CONTENTS OF THE FOLLOWING CASES WILL BE PRESSED-PACKED AND SENT POST FREE TO COLONIAL AND FOREIGN BUYERS WITHIN THE RADIUS OF PARCELS POST.

HONEYCOMB.

Extra Choice.
Finest Texture
and Shape.
The Pick of all
the Fisheries.

Pieces	Average In Case.	Price per Piece.
300	Toilet at 9d.	180 at 9d.
250	" 1/-	170 " 1/-
200	" 1/6	160 " 1/2
160	" 2/-	160 " 1/6
140	" 2/6	150 " 1/8
120	" 3/-	140 " 2/-
100	" 3/6	120 " 2/6
90	Medium Bath 4/6	110 " 3/-
80	" 5/6	90 " 3/6
72	" 6/6	80 " 4/-
60	" 7/6	75 " 4/6
45 Large	" 8/6	70 " 5/-
30	" 10/6	65 " 5/6
24	" 12/6	60 " 6/6

HONEYCOMB.

Toilet & Bath.
Good 2nd
Quality.

Pieces	Average In Case.	Price per Piece.
300	Toilet at 9d.	180 at 9d.
250	" 1/-	170 " 1/-
200	" 1/6	160 " 1/2
160	" 2/-	160 " 1/6
140	" 2/6	150 " 1/8
120	" 3/-	140 " 2/-
100	" 3/6	120 " 2/6
90	Medium Bath 4/6	110 " 3/-
80	" 5/6	90 " 3/6
72	" 6/6	80 " 4/-
60	" 7/6	75 " 4/6
45 Large	" 8/6	70 " 5/-
30	" 10/6	65 " 5/6
24	" 12/6	60 " 6/6

HONEYCOMB

3rd Shape.
Toilet and Bath.
Largest Sponges
obtainable at the
prices.

Pieces	Average in Case.	Price per Piece.
300	Toilet at 9d.	180 at 9d.
250	" 1/-	250 at 6d.
200	" 1/6	200 " 8d.
160	" 2/-	150 " 10d.
140	" 2/6	180 " 9d.
120	" 3/-	160 " 1/-
100	" 3/6	140 " 1/3
90	Medium Bath 4/6	120 " 1/6
80	" 5/6	100 " 1/9
72	" 6/6	90 " 2/-
60	" 7/6	80 " 2/6
45 Large	" 8/6	60 " 3/-
30	" 10/6	45 " 4/6
24	" 12/6	30 " 5/-

FINE TURKEY CUPS.

1st Quality.
PICKED SHAPES.

Pieces	Average in Case.	Price per Piece.
300	300 at 1/-	300 at 1/3
250	" 1/3	200 " 1/6
200	" 1/6	175 " 1/9
150	" 2/-	150 " 2/-
140	" 2/6	140 " 2/6
120	" 3/-	100 " 3/-
100	" 3/6	90 " 3/6
90	Medium Bath 4/6	80 " 4/-
80	" 5/6	70 " 4/6
72	" 6/6	60 " 5/-
60	" 7/6	50 " 6/-
45 Large	" 8/6	Bath 50 " 3/-
30	" 10/6	45 " 6/6
24	" 12/6	30 " 7/6

FINE TURKEY SOLIDS.

SELECTED
SHAPES.

Pieces	Average in Case.	Price per Piece.
200	200 at 1/-	200 at 1/6
150	" 1/6	100 " 1/9
140	" 2/-	100 " 2/-
120	" 2/6	80 " 2/6
100	" 3/-	50 " 3/-
90	Medium Bath 4/6	36 " 4/-
80	" 5/6	24 " 5/-
72	" 6/6	20 " 6/-
60	" 7/6	18 " 7/6
45 Large	" 8/6	Bath 18 " 8/6
30	" 10/6	14 " 10/6
24	" 12/6	12 " 12/6

1st Quality.

Pieces	Average in Case.	Price per Piece.
200	200 at 1/-	200 at 1/6
150	" 1/6	100 " 1/9
140	" 2/-	100 " 2/-
120	" 2/6	80 " 2/6
100	" 3/-	50 " 3/-
90	Medium Bath 4/6	36 " 4/-
80	" 5/6	24 " 5/-
72	" 6/6	20 " 6/-
60	" 7/6	18 " 7/6
45 Large	" 8/6	Bath 18 " 8/6
30	" 10/6	14 " 10/6
24	" 12/6	12 " 12/6

LOOSE GOODS DEPARTMENT.

SPONGES IN SMALL PACKAGES Fine Turkey, Fine Egyptian and Honeycomb. In 1st, 2nd and 3rd Qualities, Bleached or unbleached (state which in ordering). On strings of 1 dozen pieces, or loose in bags. At per doz.: 25., 38., 45., 68., 9s., 12s., 15s., 18s., 24s., 30s., 36s., 42s., 48s., 54s., 60s., 66s., 72s. Bleached Cuban. At per String or Dozen. Wool, Grass, Yellow and Fine. 1s., 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s.

CARDED AND BOXED SPONGES

SERIES A :

Honeycomb Sponges.

No.	Pieces	Per on card. gross.
1 1d.	Retail 12	8/-
2 2d.	" 12	16/-
3 3d.	" 12	24/-
4 4d.	" 12	32/-
6 6d.	" 6	48/-
9 9d.	" 6	72/-
12 1/-	" 6	96/-
18 1/6	" 6	144/-
24 2/-	" 6	192/-
30 2/6	" 6	240/-

SERIES C :

Grass Sponges.

No.	Pieces	Per on card. gross.
1 1d. Retail	12	7/6
2 2d.	" 12	15/-
3 3d.	" 12	22/6
4 4d.	" 12	30/-
6 6d.	" 6	45/-
9 9d.	" 6	67/6
12 1/-	" 6	90/-

SERIES B :

Turkey Sponges.

No.	Pieces	Per on card. gross.
1 1d. Retail	12	8/-
2 2d.	" 12	16/-
3 3d.	" 12	24/-
4 4d.	" 12	32/-
6 6d.	" 6	48/-
9 9d.	" 6	72/-
12 1/-	" 6	96/-
18 1/6	" 6	144/-
24 2/-	" 6	192/-
30 2/6	" 6	240/-

SERIES E :

Velvet Sponges.

No.	Pieces	Per on card. gross.
1 1d. Retail	12	7/6
2 2d.	" 12	15/-
3 3d.	" 12	22/6
4 4d.	" 12	30/-
6 6d.	" 6	45/-
9 9d.	" 6	67/6
12 1/-	" 6	90/-

SELECTED FINE CUBAN.

For Nursery and Toilet Uses.

AA Round Solids, containing 24 pieces	2/- per box
A " " " " 12 "	2/- "
B " " " " 12 "	3/- "
C " " " " 12 "	4/6 "
D " " " " 12 "	6/- "
E1 " " " " 12 "	8/- "
E2 " " " " 12 "	12/- "
E3 " " " " 6 "	8/- "

SPECIAL LINE CHEAP CUBAN.

Half forms, large sponge for money.

HC 1 Half Shapes, 8 dozen in box	12/- per box
2 " 5 " " " " 12/6 "	12/6 "
3 " 3 " " " " 10/6 "	10/6 "

NEW FINE ANCLOTE.

For Toilet and Bath, exquisitely soft, very durable.

No. 20 Containing 36 pieces, uniform size	9/- per box
" 21 "	24 "
" 22 "	24 "
" 23 "	24 "
" 24 "	24 "

NEW ANCLOTE HONEYCOMB.

Velvet Quality. Very soft and durable for Toilet and Domestic Use.

01 Large for money, 36 pieces	9/- per box
02 " " " " 24 "	8/- "
03 " " " " 24 "	12/- "
04 " " " " 24 "	18/- "
05 " " " " 12 "	12/- "

LARGEST SALES

Eureka

WEED KILLER

The
CHEMISTS' Favourite Brand.

Sales through Agents' not direct.

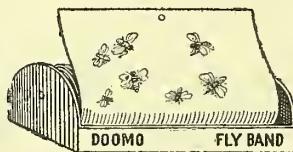
Advertising matter for window display
supplied, also counter
bills, booklets,
etc.

WRITE FOR
PRICE LIST
AND TERMS



'Grams 1 "Tomlinson, Lincoln."
Telephone No. 108.

TOMLINSON & HAYWARD, LTD.
51 Newland, LINCOLN.



THE DOOM OF THE FLY

"DOOMO" FLY BAND,
wide and long,
also narrower one.

SMITH & CO.,
Doomo Works, NEWARK.



Sherley's
WORLD FAMOUS
Medicines

**LACTOL AND
LACTOL BISCUITS**

P.A.T.A.

LACTOL and LACTOL BISCUITS have established the good name of Sherley with all dog lovers and breeders. Sherley's dog and cat medicines have created confidence and consequently command a ready sale.

Big advertising is behind all Sherley products. They are protected at prices showing the retailers a good profit margin, and our terms protect you against all possibility of loss. Excellent literature and showcards cover our various products. We realise your interests are ours.

A. F. SHERLEY & CO., LTD.
18 Marshalsea Road, London, S.E.1.

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PRICE LIST
AND TERMS

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A WELL-KNOWN AUTHORITY
CONSIDERS THIS

COLLECTIVE CUSTOMER SATISFACTION

YOUR GOODWILL DEPENDS
ON GIVING SATISFACTION TO
EVERY CUSTOMER, SO DOES

"NEWBERYS"

(F. NEWBERY & SONS LTD.)

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LONDON, E.C.1

LIVERPOOL:
College Lane.

BOB MARTIN'S TASTELESS CONDITION POWDERS

show a profit of 38%



and are advertised in daily papers having a combined sale of more than SEVEN MILLIONS a day.

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BOB MARTIN LTD., SOUTHPORT, LANCS

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Of all Patent Medicine Houses at 3/-, 5/- and 9/- per dozen.

In packets at 5d., 9d. and 1/3 each.
(P.A.T.A.)

The sure destructive agent which may be confidently recommended by Chemists for quick clearance of rats and mice.
(Users' testimonials on request.)

Prepared only by
J. C. M. BATTLE, Ph.C., LINCOLN

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SPECIAL FOODS DEVISED. ENQUIRIES INVITED.

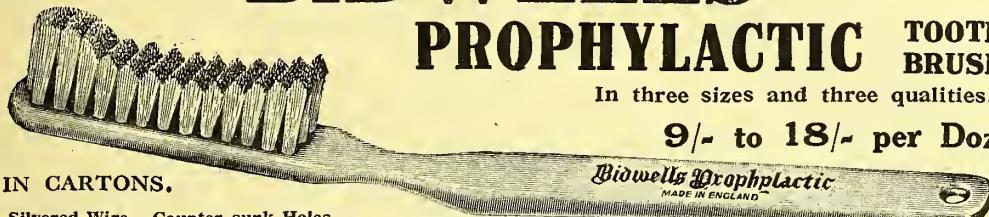
George King & Co., Ltd., Sycamore St., London, E.C.1

Phone: Clerkenwell 3383.

Wires: "Foodkings, Barb, London."

IN TINS OR TONS

GOLD MEDAL



IN CARTONS.

Silvered Wire. Counter-sunk Holes.

Estab. 1839

BIDWELLS' PROPHYLACTIC

In three sizes and three qualities.

9/- to 18/- per Doz.

Castle Mills, Axminster

NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

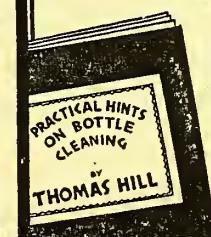
The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—

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IF YOU ARE INTERESTED IN CLEANER BOTTLES

—you should
get this New Book.



An entirely new work, based on 50 years' practical experience of bottle cleaning. Containing some invaluable information on modern Bottle cleaning practice, it should be in the hands of all interested in securing scientifically clean and sterilized bottles and jars at the lowest possible cost.

Send to-day—free to all executive members of the Trade.

THOMAS HILL
9 Park Lane, Stepney, HULL.

"FLAME-PROOF"
(Non-inflammable)
WE MAKE THEM



CELLULOID EYE SHADES

are now in general demand.
Prices and Samples for demonstration supplied.

We are also manufacturers of ORDINARY CELLULOID EYE SHADES, SILK AND COTTON EYE SHADES, VACCINATION SHIELDS AND PADS, etc.

All buyers of wholesale quantities are cordially invited to write to us for particulars.

M. J. FECHER, LTD., Cuckoo House, Dod Street, London, E.14



REGISTERED TRADE MARK



is the fastest selling household insecticide

If you are not stocking FLIT you are losing good business.

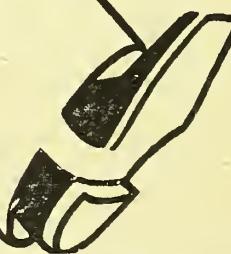
Chemists report that FLIT is the one insecticide that meets all requirements — most customers demand it by name and will accept no other. Millions everywhere use FLIT — the fastest selling insecticide on the market to-day.

FLIT advertising will appear regularly in national and local newspapers, in magazines, in specialised media and on London 'buses.

To share in the huge demand created by FLIT advertising take our tip and push FLIT stronger than ever during 1928.

In Four Sizes	List Price	Retail Price
8-oz. tins with free mouth sprayer..	17/-	2/-
16-oz. tins..	25/6	3/-
Combination set (16-oz. tin and FLIT hand sprayer)..	42/-	5/-
32-oz. tins ..	42/-	5/-
128-oz. tins ..	143/-	17/-
FLIT hand-sprayers	19/-	2/3
Special FLIT continuous sprayers	45/-	5/6

Write for special FREE GOODS OFFERS for WINDOW DISPLAYS.



FLIT destroys Flies, Mosquitoes, Moths, Midges, Ants, Wasps, Bugs, Fleas, Cockroaches

Distributors :

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Telephone : Hampstead 8066.

Telegrams : "Nufnjol, Norwest, London."

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Manufacturing
Chemists

The Sign of
The Winged Lion



Drug LIMITED
Merchants

Registered
Trade Mark

Of proved efficacy!



*Look
to your
stocks!*

POTTER'S CATARRH PASTILLES are of outstanding merit, and the public confirm this statement. They are again being widely advertised to an ever-growing consumer population all over the world, and the demand is keen. There is good business and good profit for YOU in this line.

P.A.T.A. 1/3 11/- per doz.
In Boxes of $\frac{1}{2}$ Dozens.

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1033-1034-1035

Potter and

Clarke Ltd.

Grams
Horehound
Phone London



60-64 ARTILLERY LANE, LONDON, E.1.
MANCHESTER: 24 Luna St. Gt ANCOATS

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A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

"Dutec"made in
England
by

J. DUPONT & CO., 18 FORE ST., LONDON, E.C.2.

TOOTH BRUSHESVarious
Patterns.
Samples
on
request.**FRED K. FINK & CO.**

10 & 11 MINCING LANE, LONDON, E.C.3.

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GUMS, ARABIC and TRAGACANTH as Imported or
Finely Powdered. :: SHELLACS ALL GRADES.**GREY HAIRS**

appear just here.

TOUCH THEM UP WITH

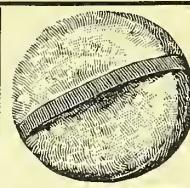
TATCHO-TONEand they will instantly recover their
natural shade. Medical Guaranty with
each bottle. Chemists' Prices 2/6 and 4/6

TATCHO-TONE CO., 5 Great Queen Street, London, W.C.2

Trial Phial.
8d
Post FreePhotographic Dealers sell Plavic Film
and enjoy the most generous Discount Terms
allowed to the Trade whilst supplying a Film
which will give all round satisfaction.RECOGNISED DEALERS ONLY SUPPLIED
Address orders R.E. CARTER, 122, Wigmore St.,
and enquiries SOLE AGENT W.4.**PUFFS**OF EVERY DESCRIPTION IN DOWN,
WOOL, VELOUR and BEAVER.

LATEST NOVELTIES.

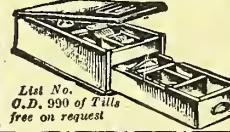
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Trial size 8d. per doz. 6/-
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3/9 size, per doz. 36/-

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O.D. 990 of Tills
free on request

Upon receipt of cash or two wholesale trade
references. "LITTLE BRILLIANT" TILL
Improved 16 x 8 x 6 ins.
mahogany, highly polished, lock
to lid and drawer, warning bell,
secret catch and check action.
Coils 2 1/2 ins. wide 4/- doz.

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558-576, Holloway Road, London, N.7.MANY SUCCESSES IN THE EXAMINATIONS
Your Opportunity to**QUALIFY IN OPTICS**

PRACTICAL WORK. Students taking the course
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AT ANY TIME DURING THE COURSE.

Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (F.B.O.A.); the National Association of Opticians (F.N.A.O.); or the College of Optics (F.C.O.).

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when cash accompanies order.

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"Wimaco" Specialities, British and Best.**MONARCH SEAL QUININE PESSARIES**—Full Strength Guaranteed

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For your
information

The products noted below are attracting the attention of physicians. We shall be glad to send literature for the information of pharmacists on request.

TRADE MARK 'VAPOROLE' BRAND
EPHEDRINE SPRAY COMPOUND

Enables Ephedrine to be applied, by means of an atomiser, to the nose and pharynx. Consists of Ephedrine, 1 per cent., Menthol, Camphor and Oil of Thyme, of each 2 per cent., in a base of 'Paroleine' — a high quality liquid paraffin. Clinical trials have given satisfactory results.

Bottles of 1 fl. oz., 27/- per doz. (subject)

TRADE MARK 'ALEPOL' MARK

For Intravenous and Intramuscular Injection

A selected fraction of the Sodium Salts of the Total Fatty Acids of Hydnocarpus Oil.

Bottles of 25 gm. and 100 gm., at 66/- and 240/- per dozen (subject)

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LIVER EXTRACT

(An Active Selected Fraction of an Extract of Fresh Liver)

For the treatment of Pernicious Anaemia

*Trade Price, 27/- per dozen tubes (net)
Retail Price to the public, 3/- per tube*

It is more gratifying to be able to say
"We have it in stock" than "We can order it for you"



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WALMSLEY CLEANING
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ZEPHYR BUTTONHOLES.
ZOMBS.
Also Special Agents for
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THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

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Contents

No. 20 Series 2519 Vol. 108

	PAGE	PAGE	
Associations' Meetings	619	Irish News	617
Automatic Film Machines	623	Legal Reports	618
Bankruptcy Reports	618	New Companies and Company News	618
Births	626	Observations and Reflections	627
Business Changes	630	Personalities	626
C. & D. Commercial Compendium	643	Pharmaceutical Society of Great Britain:—	
Coming Events	615	Annual Meeting	631
Corner for Students	635	Council Meeting	633
Correspondence:—		Council Election	633
Letters	641	Branch Meetings	633
Subscribers' Symposium	641	Pharmaceutical Society of Ireland:—	
Miscellaneous Inquiries	642	Council Meeting	620
Legal Queries	642	Photographic Notes	622
Deaths	626	Recent Patents	625
Dental Board	619	Retrospect	642
Editorial Articles:—		Scottish News	617
Early Closing	628	Society of Chemical Industry	624
Council Election	629	South African News	617
Mercury Market	630	Trade Marks	625
English News	615	Trade Notes	625
Gazette	618	Trade Report	636
Harvey Centenary	621	Wills	626
Information Department	626		
Insurance Act Dispensing	634		

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, May 21

Drug Trade Appeal Fund, St. Bride's Institute (Room 23), Bride Lane, Ludgate Circus, London, E.C.4, at 4 p.m. Subscribers' biennial meeting.

Tuesday, May 22

South-West London Chemists' Association, Stevens' Bijou Hall, Bromell's Road, Clapham, London, S.W.4, at 8.30 p.m. Annual meeting.

Wednesday, May 23

Pharmaceutical Society of Great Britain, Tees-Side Branch, Corporation Hotel, Middlesbrough, at 8 p.m. Address by Mr. H. N. Linstead.

Manchester and District Pharmaceutical Golfing Society, Ashton Golf Course. Competition for the Kerfoot trophy.

Thursday, May 24

West Ham and District Association of Pharmacists, The Red Triangle Sports Ground, Blake Hall Road, Wanstead, at 2 p.m. Annual sports meeting.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Safeguarding of Industries Act, 1921

The Treasury have made an Order under Section 10 (5) of the Finance Act, 1926, exempting radium compounds from key industry duty from May 15 to December 31, 1928.

Representations have been made to the Board of Trade under Section 10 (5) of the Finance Act, 1926, for exemption from duty of yatren (iodo oxyquinoline sulphonate acid).

Dutch Pharmacists Entertained

The Dutch pharmacists who have been visiting this country during the past few days made history, on May 11, by including in their itinerary the works of J. C. Eno, Ltd., New Cross, London, S.E. The visitors were received by two of the directors of the company, Major F. Vanden Heuvel and Mr. J. H. H. Boyd, the works manager; Mr. W. J. Jaggers, and the company's chief analytical chemist, Major C. W. B. Heslop. Until the date of this visit no one other than employees had, with few exceptions, penetrated beyond the general office. One was impressed by the keen interest shown and the fluency of the English spoken by the visitors. The world-wide distribution of Fruit Salt was realised when it was made known that the Eno leaflets were printed in fifty-eight languages. The taking of a group photograph of the company was followed by a luncheon. Mr. J. H. H. Boyd proposed the toasts of "The King" and "The Queen of the Netherlands," afterwards giving a brief history of the business. The members of the staff then drank the health of "The Visitors." Mr. A. Proctor Atkinson, sales manager, made a felicitous speech on the production and sale of Eno's Fruit Salt. He demonstrated the keeping properties by relating his experience of buying a bottle in Bombay during his recent business tour; this package, though five years old, was found to be in perfect condition. Dr. Hofman, replying in a humorous strain, thanked Messrs. Eno for their hospitality. He stressed the advantages of a really good product, saying that the secret of ultimate success was to make an article of genuine merit. He hoped that Eno's would go on from success to success. Mr. A. H. Jenkin, member of the Council of the Pharmaceutical Society, afterwards took the party to see the dispensary of the London Hospital.

The Dutch visitors wound up their short stay with a visit, on May 14, to Cambridge, where they were received by Mr. E. Saville Peck and other members of the local branch of the Pharmaceutical Society. The day was spent in visiting colleges and in inspecting the work being carried on at the Bio-Chemical Laboratory and the Laboratory of Parasitology. At the former place the party was welcomed by Professor Sir Frederick Gowland Hopkins, and at the latter by Professor G. H. F. Nuttall. Mr. Peck, who presided at luncheon, welcomed the visitors, and Dr. Hofman replied.

Inquests

A verdict of "Accidental death" was recorded at a Farnworth inquest, on May 11, on three victims of a hotel fire. The principal witness was Mrs. Kay, wife of the licensee, and one of the victims was her son, Walter, described as a pharmaceutical student.

A verdict that death was due to an overdose of a drug taken accidentally was returned at a recent inquest on the body of Mr. Charles H. Lord, L.D.S., Keighley. It was stated that Mr. Lord had, on two previous occasions, accidentally taken too much chloral hydrate.

At Portsmouth, on May 12, a verdict of "Death from a large overdose of aspirin" was given at an inquest on the body of Cyril F. Domoney, naval officers' cook. A surgeon deposed that Domoney's explanation of his symptoms was that he had taken about 200 aspirin tablets.

The Portsmouth coroner recently concluded an inquiry concerning the death of Warrant Engineer J. G. Watkins, who was found dead on board his ship. Mr. R. P. Page, city analyst, gave evidence of finding 7 gr. of strychnine

in the stomach of the deceased, and smaller quantities in the liver and kidneys. Another witness stated that no strichnine was missed from the ship's supply. A verdict of "Suicide while of unsound mind" was given.

A verdict of "Death by misadventure" was returned by a Camberwell jury, on May 16, at an inquest on the body of Dr. Stephen F. Smith, Denmark Hill, London, S.E., who died from morphine poisoning in King's College Hospital. Herbert Spencer Smith, a son, said that when he visited the hospital on May 9 his father wrote a prescription. Witness took it to a chemist outside, who made up the tablets, which his father placed in his shoe in a locker. The jury exonerated Dr. Smith's son from blame, and expressed the opinion that the house surgeon, in withholding morphine, had acted with skill, care, and judgment.

The inquest on the body of Harry Pace, farmer, Coleford (C. & D., May 12, p. 586) was continued on May 10, 14 and 15. Mr. R. H. Ellis, F.I.C., the Gloucester county analyst, deposed that he had found in the stomach of the deceased 0.01393 gr. of arsenic; in the liver 3.62 gr.; in the kidneys 1.018 gr.; and various other quantities, making a total of 9.42 gr. He had examined the organs for antimony, copper, mercury and alkaloids with negative results. A sample of sheep dip tested contained 20.82 per cent. of arsenic. One bottle contained opium, and another antimony chloride. In a 6-oz. bottle containing about 2 oz. of a purple liquid he found 0.74 gr. of arsenic. Professor Walker Hall, pathologist, Bristol University, gave evidence to the effect that death was due to "the group of poisons known as arsenical." The arsenic must have been taken over a period of at least fourteen days, and perhaps up to four or six months. Cross-examined: It would be impossible to absorb through the skin sufficient arsenic to cause illness. Mr. Ellis, recalled, said that about eighteen teaspoonsfuls of arsenical sheep dip prepared according to the makers' instructions would contain 2 gr. of arsenic. Sir William Wilcox, M.D., agreed that the findings of the two previous witnesses were consistent with arsenical poisoning. It was probable, since the stomach was practically free from arsenic, that none had been taken during the last six hours of life, but the quantity in the intestines (about 4 gr.) suggested that a large dose must have been taken within forty-eight hours of death. In the Madeline Smith case 82 gr. was found in the stomach; in that of Mrs. Armstrong there was more than 2 gr. in the liver. After the widow of the deceased had given evidence, the inquest was adjourned to May 22.

Birmingham

The Birmingham and Midlands section of the Institute of Chemistry held an exhibition of industrial films on April 27.

Mr. L. C. Tipper has just returned from a three-months' tour in the East, and now contemplates visiting Australasia.

A local insurance office is issuing pamphlets with the object of raising the standard of health, some of the titles being:—First Aid, Scarlet Fever, Cancer, Diphtheria, Tonsils and Adenoids, and the Whys and Hows of Diet.

It is stated that 275,000 people have joined the Birmingham Hospitals contributory scheme. "How will this affect the prescribing chemist and the work of the dispensary department of the hospitals?" asks a correspondent.

A meeting of the Biochemical Society was held at the University, Birmingham, on May 12. The papers read included "The Biological Examination of Irradiated Zymosterol for Vitamin D," by E. M. Hume, H. H. Smith, and I. Smedley-MacLean, and "The Fermentation of Citric Acid by *Bacterium pyocyanus*," by J. Butterworth and T. K. Walker.

A series of seven lectures on "Electro-chemical Oxidation of Organic and Inorganic Compounds" was recently given in the Chemistry Department of the University by Professor Fichter. The lectures, which have been well attended, dealt with the electro-chemical oxidation of aromatic hydrocarbons; electro-chemical preparation of

vanillin, saccharin and dyestuffs; electro-chemistry and bio-chemistry; Kolbe's synthesis of hydrocarbons; Kolbe's synthesis and related reactions; action of fluorine upon inorganic and organic compounds; and the history and development of chemical industries in Switzerland.

Manchester

Mr. Thos. C. Tomlinson (Thos. Tomlinson & Son, chemists' valuers, etc., 45A Market Street, has been admitted a Fellow of the National Association of Auctioneers and Valuers of Great Britain. Mr. S. Taylor, of the same firm, has also been admitted a Fellow of the Association.

Members of the Manchester and District Pharmaceutical Golfing Society took part in a competition for a prize presented by Mr. R. Hough (Hough, Hoseason & Co., Ltd., Manchester) at Torkington golf course on May 9. About a score of members took part, and the leading scores were as follows:—

H. Dutton ... 99 — 21 = 78	R. G. Edwards 99 — 15 = 83
J. A. Collins ... 85 — 5 = 81	W. J. Gardner 100 — 14 = 86
W. A. Sturdy 94 — 11 = 83	T. Miller ... 94 — 8 = 86

Mr. H. Dutton was the winner of the prize given by Mr. Hough, and Mr. J. A. Collins was awarded a prize by the Society. After high tea Mr. Hough expressed his pleasure in being able to be among the members, wished their Society every success, and presented the prize to Mr. H. Dutton. After tea friendly four-ball matches were played.

Miscellaneous

THEFT OF CAMERAS.—The premises of Mr. H. S. Aplin, chemist and druggist, Canning Town, London, E., were broken into recently and several cameras were stolen.

WINDOW-DRESSING AWARD.—In connection with a window-dressing competition at Pwllheli, recently, a first prize was awarded to Mr. R. H. Jones, chemist and druggist.

ANALYST'S REPORT.—The report of the Kent County Analyst (Mr. F. W. F. Armand, F.I.C.) for the quarter ended December 31, 1927, states that during the quarter twenty-eight samples of "drugs" were submitted for examination, and these were all found to be genuine. A sample of liquid extract of glycyrrhiza had an abnormal composition and could not be passed as satisfactory. A sample of crushed linseed was returned of inferior quality owing to the presence of an excess of sand.

IN THE COURTS.—At Nottingham Police Court, on May 10, William Cassell, Beeston Road, was fined £2 2s., with £2 2s. costs, for having sold tobacco mixed with coltsfoot and other herbs for the preparation of herbal cigarettes.—In Bow County Court, London, on May 17, Kemball, Bishop & Co., Ltd., manufacturing chemists, Bromley-by-Bow, sued Harry H. Gardam & Co., Ltd., Staines, to recover the sum of £25, the agreed price for a second-hand air compressor, or, alternatively, damages sustained through its non-acceptance. After the evidence had been heard, Judge Snagge reserved judgment.

VISIT TO WORKS.—On May 8, fifty pharmacy and chemistry students of Bradford Technical College, accompanied by Mr. James A. White (president of the local Branch of the Society), Dr. R. D. Abell, D.Sc., head of chemical department; Miss F. Burdett, B.Sc., Mr. J. C. Cooper, Ph.C., and Mr. F. J. Dyer, B.Sc., Ph.C., visited the works of Evans Sons Lescher & Webb, Ltd., Liverpool. Prior to the visit, the party inspected the Liverpool docks and went aboard the White Star liner "Baltic." After lunch, they were welcomed at Hanover Street by Mr. C. E. J. Sendall, director, and then conducted over the buildings. The generous offer of three prizes for essays upon the visit intensified the keen interest taken by the students in all the plant and operations. The visitors were afterwards entertained at the Bear's Paw Restaurant. Appreciation of the visit was expressed by Mr. F. J. Dyer, Mr. J. White, and Mr. G. N. Roberts, to which Mr. Sendall and Mr. Ferguson (directors) briefly replied.

THE Royal Victoria Hospital, Dundee, and the London Homoeopathic Hospital have each applied for a charter of incorporation.

Irish News

Belfast Early Closing Order

The result of the plebiscite of pharmaceutical chemists, chemists and druggists and registered druggists in Belfast on the proposed new Early Closing Order has been announced as follows:—In favour of the Order, 116; against, 37. The voting on the question of the revocation of the old Order was 121 for and 29 against. The majority for the new Order complies with the two-thirds required by the regulations; the Police Committee, has, accordingly, recommended the Corporation to make application to the Ministry of Home Affairs to revoke the original Order, and to substitute the new Order, which alters the hour of closing from 9 p.m. to 8 p.m., 10 p.m. on Saturdays remaining undisturbed, and the weekly half-holiday being unchanged. Nothing in the proposed Order prohibits the sale of medicines and medical and surgical appliances after the closing-hours. The Ulster Retail Drug Trade Association asked that there should be included in the Order provision for the covering over of goods not exempted while the shop is open for the sale of medicines, medical and surgical appliances, and that provision similar to that relating to the weekly half-holiday as to displaying the notice both inside and outside the shop should also be included in the Order. The Committee, however, came to the conclusion that these were matters that came within the scope of the inspector under the authority of the Shops Act.

Brevities

Mr. Jack Sewell, M.P.S.I., has been appointed captain of the Killarney Football Club.

Mr. J. M. Winckworth, M.P.S.I., Mullingar, has been appointed a peace commissioner.

Mr. C. S. O'Hare, Ph.C., has been appointed chairman of the committee formed to run a shopping week in Newry.

It is requested that communications and remittances regarding the Derby sweep of the Irish Chemists' Golfing Society be sent to Mr. James Ryan, R.D., Hon. Secretary, 28 James Street, Dublin.

Belfast

Mr. Fred Storey, president of the Chemists' and Druggists' Society of Ireland, was invited to open the new Bloomfield Tennis Courts, Belfast, on May 5.

Mr. J. H. Totton, F.I.C., the Belfast public analyst, reporting to the Corporation on a sample of sauce, stated that it contained 500 parts of salicylic acid per million. Under the provisions of the Public Health (Preservatives, etc., in Food) (Northern Ireland) Regulations, 1927, the use of salicylic acid as a preservative is forbidden.

Scottish News

Brevities

Mr. Nicol, Stevenston, and Mr. Cox, Saltcoats, have been appointed to supply the medicines for the local poor during the ensuing term.

"Shopping week" has been held in Airdrie for the second successive year, and the local chemists devised special schemes for attracting attention to their respective establishments.

Edinburgh Chemists' Golf Club held their fourth outing of the season on May 9 over Prestongrange Golf Course. This being the bogey competition, the medal presented by the late Mr. David Brown was being competed for. Mr. E. Knott was again the winner, with a score 4 down, and Messrs. M. Scott and R. Sinclair tied for second prize—5 down. The next outing will take place over Gullane No. 1 Course on June 6.

Fifeshire

The board of the second Anglo-Scottish beet-sugar corporation has decided to reopen the Cupar factory as a refinery.

Expenditure by Kirkcaldy and Dysart Parish Council under the scheme for providing medicines to the poor, has increased during the past year by approximately 50 per cent. The committee has voted in favour of more stringent economy, and is arranging to have prescriptions checked by the Central Checking Bureau, Glasgow.

Glasgow

At Glasgow Sheriff Court, recently, Mr. George Fraser, unqualified assistant, 376 Argyle Street, was fined £2 for having sold lysol.

Mme. Curie, the radiologist, is to receive the freedom of the city during her forthcoming visit to Glasgow, when the University is conferring on her the honorary degree of Doctor of Laws.

Mr. Thomas Dunlop, Ph.C., who has carried on business at Albert Road, Pollokshields, Glasgow, for about forty years, has just retired. The pharmacy has been taken over by Mr. W. D. Gellatly, who will continue to run his shop at 1 Crossflat Terrace, Glasgow Road, Paisley, as a branch from Pollokshields.

South African Chemists Meet

NEW PHARMACY ACT UNSATISFACTORY

The sixth annual Conference of the Associated Pharmaceutical Societies of South Africa was held on April 12 at the Jewish Memorial Guild Hall, Johannesburg. Mr. J. S. Ferguson, J.P., presided, and delegates were present from all parts of the Union. Strong comment was made on the fact that Government departments, particularly the veterinary department, were trading in competition with chemists. It was stated that the veterinary department was selling such articles as syringes, and instances were quoted where Government departments had insisted on private hospitals accepting goods in lieu of moneys owing by the Government to such institutions.

It was decided to ensure that the sale of pharmaceutical products (proprietary and non-proprietary), in addition to poisons, be confined exclusively to chemists.

In this connection anomalies that existed between the new Medical, Dental and Pharmacy Act and the Consolidated Licences Act were discussed, and it was decided to make representations to the Government to have the term "proprietary medicine," as clearly defined in the new Medical, Dental and Pharmacy Act, applied to the Licensing Act. Another clause that conflicted with the Pharmacy Act in the Licensing Act was that which provided for the running of corporate bodies.

METHYLATED SPIRITS MENACE

Reference was made by delegates to the unwarranted slur sometimes cast on chemists, of being indirectly associated with the methylated spirits menace by selling the product. It was unanimously decided that the chemists and druggists of South Africa had no desire whatever to have a monopoly in the handling of such commodities.

DISAPPOINTING PHARMACY ACT

The Conference unanimously adopted a hearty vote of thanks to Mr. John Christie, M.L.A., and Major G. B. van Zyl, M.L.A., for the splendid services rendered by them in endeavouring to obtain amendments in the Pharmacy Act for the benefit of the pharmaceutical profession. The feeling was unanimously expressed, however, that the provisions of the Act were by no means satisfactory, despite the amendments, and that any small advantages gained were outweighed by what had been lost in the repeal of the Provincial Acts. This was particularly disappointing, it was stated, in view of the fact that the Minister in charge of the Bill (Dr. Malan) had been in 1925 most sympathetic towards the aspirations of the profession, and had promised it his support.

The election of the Pharmacy Board was discussed, and it was decided that the Associated Societies nominate the six representatives to be elected.

Legal Reports

Dentist's Appeal against Dental Board's Decision.—In a King's Bench Divisional Court (the Lord Chief Justice and Justices Avory and Shearman), on May 10, Mr. Maurice Healy appeared on behalf of Mr. James Pickup, Bury, Lancashire, who had practised as a dentist, to appeal against the decision of the Dental Board resulting in the removal of his name from the Dentists Register. Mr. Healy said he was bound to admit that his appeal had no merit so far as the facts were concerned; but he had, he contended, a good objection to the action of the Board on technical grounds. His contention now was that the nature of the charges that had been levelled against the appellant in courts of summary jurisdiction had not been correctly stated before the Board. The Lord Chief Justice, in giving judgment, said that the question raised by the appeal was what the true meaning of the expression "misdemeanour" in Section 13 of the Dentists Act, 1878, was. The appeal was unanimously dismissed, with costs.

Damages for Breach of Contract.—In the Civil Court at the Manchester Assizes, on May 9 and 10, Frederick James Woodroffe, baker, Higher Broughton, sued David Gouldman (trading, it was stated, as the Gold-Vin Wine Co.) to recover the sum of £255 as damages for breach of contract in respect of a supply of meat and malt wine, and for breach of contract to indemnify him against the costs and expenses of a prosecution and proceedings arising therefrom. The defendant denied that he traded as the Gold-Vin Wine Co., or that he made either of the contracts. Mr. J. C. Jackson, K.C., for the plaintiff, said that he ordered two dozen bottles of the wine. In June 1926 an inspector appointed under the Sale of Food and Drugs Acts bought a bottle of the wine at the plaintiff's shop, and on analysis it was found to be composed of 81.2 per cent. of water, 16.4 per cent. of sugar, and 2.4 per cent. of other matter. There was less than 2 per cent. of meat and malt extract. When the case came up at the Salford Police Court in August 1926 it was dismissed, but there was an appeal, and on the case again coming up at Salford, Mr. Woodroffe was fined £5 and £21 costs (*C. & D.*, 1927, II, 54). In consequence of all these proceedings Mr. Woodroffe, who was only in a small way of business, had been let in for a loss of £204 18s., and was liable to be sold up at any moment. The jury returned a verdict for Mr. Woodroffe for £205 10s. 6d. damages, with costs.

Pharmaceutical Society Membership Prosecution.—At Dundee Sheriff Court, on May 12, Sheriff Malcolm delivered judgment in the case in which the Pharmaceutical Society sued Mr. John Melville, chemist and druggist, Perth Road, on a charge of using, assuming or exhibiting a title or sign implying that he was a member of the Society on a date on which he was not a member (*C. & D.*, May 12, p. 588). Giving judgment, his lordship said that the purpose of the Act of 1852 and the purpose of Section 12 in particular was the protection of the public against unqualified and incompetent persons carrying on the business of pharmaceutical chemists, not the protection of the Society or its interests or its privileges. Accordingly, what the Section did was to prohibit, under pain of a penalty, unqualified persons from holding themselves out as qualified in one or other of the three ways specified, and so inducing the public to do business with them as pharmaceutical chemists, and the test of qualification which it imposed, in order to be exempt from penalty from so holding themselves out, in one or other of the three ways, was being duly registered as a pharmaceutical chemist. Accordingly it seemed to him to be necessary for the relevancy of a complaint brought under the Section that it should state that the accused person was not duly registered as a pharmaceutical chemist. To state, as the present complaint did, that the accused was not a member of the Society was not enough, because membership was not exhaustive of the category of persons who were exempt from the operation of this penal section. His lordship granted expenses to the defendant, and to Mr. George J. Lindsay, chemist and druggist, the defendant in a second case of the same nature, and agreed to state a case.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

STONE'S PHARMACY, LTD. (P.C.).—Capital £700. Objects: To carry on the business of chemists and druggists, etc. The subscribers are J. S. Stone and C. M. Robinson. R.O.: 19 Borough High Street, S.E.1.

LONG & STRICKLAND, LTD. (P.C.).—Capital £12,000. Objects: To carry on the business of chemists, druggists, opticians, perfumers, etc. The first directors are C. T. Cooper, J. R. Hansford and F. B. J. Stephens. R.O.: 21 High Street, Bognor, Sussex.

W. J. BUSH & CO., LTD.—The gross profit for 1927 was £255,636, and net profit is £58,950, *plus* £60,174 brought forward. The directors recommend a final dividend of 7 per cent. on ordinary shares, making 10 per cent. for the year, *plus* a bonus of 6d. per share, placing to general reserve £20,000 and carrying forward £61,624.

NATIONAL DRUG AND CHEMICAL OF CANADA.—The net trading profit for the year ended January 31, 1928, was \$87,408 (£17,960), compared with \$64,280 (£13,208) in the preceding year. With income from investments in subsidiary companies, \$61,780 (£12,694) (previous year \$47,800 (£9,822)), makes a total of \$149,188 (£30,655) (previous year \$112,080 (£23,030)). Credit balance carried forward is \$178,527 (£36,684), compared with \$83,982 (£17,257). Various assets have been written down to a considerable extent as in other years, and, as usual, inventories have been calculated at cost or at value, whichever was lower. After so doing an increased surplus is shown amounting to \$3,886,799 (£798,657), compared with \$3,740,964 (£768,691) in the preceding year. Each £1 cumulative first preference share is thus represented by surplus assets amounting to £1 16s. 4d. per share, compared with £1 15s. a year ago and £1 9s. 10d. in 1915. General conditions in Canada (states the report) again showed improvement during past year, and give promise of continuing to be favourable. An aggressive sales-effort has been maintained and expenses have been kept down to the lowest possible point. The directors regret that, as trade conditions make it highly desirable to maintain company's finances in a liquid state, the present is not an opportune time for making any distribution by way of dividend.

Bankruptcy Report

RE A. E. DUNCAN & SON (Arthur George Bush, trading as), produce brokers, 27, Mincing Lane, E.C. An application for an order of discharge was made on May 2 at the London Bankruptcy Court by this bankrupt, who failed in December 1927 with provable claims £4,722 (*C. & D.*, March 17, p. 343). Mr. Walter Boyle, Senior Official Receiver, reported that the assets had realised £46, and a further £50 was expected to be received in respect of the outstanding book debts. The application was opposed by the Senior Official Receiver on various statutory grounds, including rash and hazardous speculations, and misconduct in transferring assets to Duncan (Cereals), Ltd., without making provision for the payment of liabilities incurred up to July 1927. Counsel, on behalf of (Messrs. I. A. Rucker & Bencraft (petitioning creditors), further opposed on the ground that the bankrupt had put his clients to unnecessary expense by a frivolous and vexatious defence to an action properly brought against him. After hearing evidence the registrar upheld the official receiver's charge of rash and hazardous speculations, but held that the misconduct was only of a technical nature, no dishonesty being attached to the transfer to the company. He further dismissed the creditors' allegations in relation to the frivolous and vexatious defence to their action, and granted a discharge subject to a suspension of six months.

Gazette Bankruptcy Acts

ADJUDICATION

WILLIAMSON, E. F., Jun., 31 High Street, Clapham, Surrey, chemist, trading as Mann's Drug Stores.

Dental Board of the United Kingdom

THE fourteenth session of the Dental Board of the United Kingdom opened at 44 Hallam Street, London, W.1, on May 8, the chairman (the Rt. Hon. Sir Francis Dyke Acland, Bt.) presiding.

THE CHAIRMAN'S ADDRESS

contained little of general interest. There were two references to legal matters, one to clinics (certain aspects of which may, the chairman said, soon be *sub judice*), and one to changes in the *personnel* of the Board. On the subject of the fees payable to the Board by dentists, the chairman's statement was as follows:—

A motion is to be brought before us during this session for a reduction of the retention fee to £3, and the Board may therefore wish that I should give them some figures to guide their judgment. Every pound of retention fee means about £9,500 in income. Our present income with an original registration fee of £5 and a retention fee of £4 is something over £2,000 in excess of our present expenditure, but the surplus arises mainly from interest on specific reserves, and, if these are expended upon the objects to which they are allocated, the surplus will only be something over £1,000. This figure, even with the present low entry of about 400 a year to the Register, does not give much margin for reducing the fee during even the early years of practice. And evidently any appreciable all-round reduction would mean a big cut in our work, particularly as the low entry means that our income is comparatively stationary while certain parts of our expenditure tend to expand. But clearly if the retention fee be left at £5, to which it will now automatically revert unless new regulations be made, there would be room at present, and even if the number of entrants were to increase, for a considerable reduction of fee in the early years. For instance, with an average entry of 400 a year the maximum loss from lowering the registration fee from £5 to £2, and the retention fee also during the succeeding four years from £5 to £2, would be £6,000, against a loss of about £10,000 if registration and retention fees were reduced by £1 throughout. We could, I believe, maintain our work at about its present standard, and perhaps even do something to help Dental Schools to improve their teaching, if we adopted the more expensive of these alternatives. Personally, both in order to ease the pressure where the shoe pinches hardest, namely, in the years immediately following registration, and in order to have that margin of income which may make all the difference to our power of creating and maintaining a register of full sufficiency and efficiency, which I believe to be our primary function, I should prefer the less expensive alternative. I should not, however, like to do anything which would make the entrants to the Register by legislation feel aggrieved because they had in the past had to pay a higher rate of fees than it was proposed to make the entrants by examination pay in the future.

The chairman, in concluding his address, made an optimistic reference to the dental health propaganda of the Board.

DISCIPLINARY CASES

The first of the disciplinary cases taken was that of Mr. Frank Barratt, 38 Woodhouse Road, Mansfield, who had appeared at the November 1927 sitting of the Board in answer to a charge of receiving money for dentures which he had not supplied. Letters from professional colleagues testifying to Mr. Barratt's good conduct were now read, and his name was retained on the Register.

Cases arising out of convictions for drunkenness were taken on the first day of the session. In the first case the respondent was Mr. Ernest William Turner, 395 Monument Road, Birmingham, who was admonished by the chairman and was given twelve months in which to obtain the requisite professional testimony. The respondents in the other two cases, Mr. James Ireland, Ivy Cottage, Packington, and Mr. Samuel Lambert Milliken, 107 Great Victoria Street, Belfast, were ordered to furnish references for consideration at the November session.

The case of Mr. R. A. B. Stilley, L.D.S., 59 Leeming Street, Mansfield, which had been before the Board in May and November 1927, was again considered, the crucial point being whether he had complied with the Board's instructions with regard to the display of his

name and qualification on his premises. His solicitor read a letter from him and addressed the Board on his behalf. The matter was adjourned to the next session.

Mr. Frank E. Coe, 50 Defoe Road, London, S.W.17, whose case had been remitted from the General Medical Council last November for further inquiry, was cautioned as to his future conduct, and was told that his name would remain on the Register.

The Board, after deliberating on the conviction of Mr. Alfred Catlow, 16 Westgate, Burnley, for obtaining money for dentures by false pretences, found that his name should be erased from the Register.

Mr. Frederick John Cowens, 12A Grosvenor Street, London, W.1, attended in answer to a summons arising out of a police-court conviction for keeping a gaming house. The case was adjourned for twelve months, with the customary stipulation as to conduct.

The case of Mr. Laurent Eugene Deprimoz, 89 Whitehouse Road, Croydon, who had been co-respondent in a divorce suit, was taken on May 8 and 9, and resulted in a recommendation that his name be removed from the Register.

A charge of "covering" made against Mr. Joseph J. G. Bishop, L.D.S., Wolsey Lodge, Feltham, was dismissed.

Cases of canvassing were taken on May 9, 10 and 11. The first was that of Mr. Harry Patrick Jones, 4 Aberford Road, Woodsford. Of the five counts in the charge, three were proved in the Board's opinion, and it was decided that the respondent's name should be removed from the Register. In the second case, that of Mr. William Harkus Parker, 81 Whitley Road, Whitley Bay, it was ordered that he satisfy the Board in November that there had been no recurrence of canvassing, which was found to be proved. In the third case, that of Mrs. Louise Waterhouse, 588 Manchester Road, Rochdale, five charges were held to be proved, but the Board's finding was suspended for a year.

OTHER MATTERS

The Examination and Education Committee recommended that the sixth series of post-graduate lectures be delivered in London, Liverpool and Edinburgh, and that a sixth series of post-registration lectures be arranged for the winter session 1928-29 in London, Manchester, Sheffield, and, if arrangements can be made and a sufficient number of applications are received, in Glasgow. —The Finance Committee reported that there was a surplus of income over expenditure amounting to £3,207, compared with an average of £4,819 for the past three years.

Associations' Meetings

Huddersfield.—The annual general meeting of the Huddersfield and District Junior Chemists' Association was held recently. The chair was taken by the president, Mr. N. Lander. The treasurer submitted his report and balance sheet, showing a working balance of £6. Reference was made to a successful dance on December 7, 1927, and the visit to the works and laboratories of Evans Sons Lescher & Webb, Ltd., Liverpool. The retiring secretary, Mr. H. Smith, 12 Broad Lane, Dalton, Huddersfield, and the retiring treasurer, Mr. H. Hoyle, were re-elected, together with a committee of three. Mr. Roy, chairman of the Huddersfield Branch of the Society, was present, and gave the members a few words of advice on their studies. The meeting then adjourned for supper.

London (S.W.).—The fifth general meeting was held on April 24. In the absence of the president the chair was taken by the vice-president, Miss Borrowman. Mr. H. N. Linstead gave an address on *Some Everyday Problems of the Pharmacy Acts*. Following this a discussion was entered into by Messrs. Gulliver, Wells, Shakerley, Monaghan, Fitch, Rowland, Wigginton, Ingham, James, and the secretary. Questions were answered by Mr. Linstead. Mr. F. G. Wells spoke on the Council election. A vote of thanks to Mr. Linstead was proposed by Mr. Gulliver.

Pharmaceutical Society of Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on May 8, Mr. F. J. Fitzpatrick (president) in the chair. The following members of the Council were also present: Mr. Denis J. Nugent (vice-president), Dr. Michael Ryan (treasurer), Sir Thomas Robinson, Dr. J. A. Mitchell, Messrs. Michael J. Kieran, Patrick Brooke Kelly, John J. Roche, Thomas A. Doyle, George Brown, P. D. Larkin, James McCormack, P. Kieran, Seumas S. Na Carra (J. J. R. Kerr), D. Warwick, P. J. Fielding and Joseph Gorry.

VOTES OF SYMPATHY

The PRESIDENT said that since their last meeting they had lost a loyal and distinguished member of their Society. He alluded to Mr. James Tate, a past-president. He would ask them to pass a vote of sympathy with Mr. Tate's family in the usual manner. The vote of sympathy was passed in silence, those present standing.

The PRESIDENT said he had asked Miss Grene to send a letter of sympathy pending a meeting of the Council, and Miss Grene had received a letter, which, perhaps, they would wish her to read. Miss E. C. Grene (registrar) read a letter in acknowledgment from Mr. Walter C. Tate, Ph.C., Inver, Lansdowne Road, Belfast.

The PRESIDENT: Mr. Tate was one of those gentlemen who continued his membership of the Society, although they had their own Society in the North. He mentioned to Mr. Warwick that he would continue to do so until the end; and he kept his promise.

At the request of the president a vote of sympathy was also passed with Mr. and Mrs. John Smith on the death of a relative.

RECOGNITION OF CORK UNIVERSITY CLASSES

The registrar submitted a letter from Mr. Alfred O'Rahilly, Registrar, University College, Cork, asking the Council to recognise the classes of the College in theoretical and practical chemistry, botany, and materia medica. It was unanimously decided to comply with the request.

RESIGNATION OF AN EXAMINER

Mrs. Murphy O'Shea, Macroom, co. Cork, wrote tendering her resignation as examiner for the Preliminary examination, and expressing her thanks to the president, members of the Council and the registrar for the courtesy she had received during her term as examiner. It was decided to advertise for a successor.

DEATHS

The registrar submitted death certificates of Mr. James Tate, Ph.C., and Mr. Wm. D. O'Regan, Ph.C., and a report from Mr. Joseph Walsh as to the death of Mr. Alfred McBride, Ph.C., in July 1924.

A DOCTOR'S APPLICATION

Dr. Patrick M. Moriarty, Dingle, co. Kerry, wrote submitting his L.A.H. diploma, and desiring to be registered as a pharmaceutical chemist. It was decided to comply with the request.

PRELIMINARY REGISTRATION

Miss Violet A. Cope, who submitted a T.C.D. Public Entrance Certificate, was admitted to Preliminary registration.

CHANGES OF ADDRESS

The following notified changes of address:—Mr. Robert Barre, R.D., to c/o Nidal, Ltd., Coates' Buildings, 5 Fountain Street, Belfast; Dr. H. Tennison Beggs, Ph.C., to The Old Vicarage, North Petherton, Somerset; Mr. P. J. Hogan, M.P.S.I., to c/o J. J. Broderick, M.P.S.I., 18 Patrick Street, Fermoy, co. Cork; Mr. J. McKenna, R.D., to 2 Fairview Green, Croydon Park, Dublin; Mr. George G. Williamson, Ph.C., to 4 Grosvenor Place, Rathmines, co. Dublin.

SEALING OF THE PHARMACEUTICAL LICENCES

The pharmaceutical licences of several candidates were directed to be signed and sealed.

REPORTS FROM COMMITTEES

Reports were received from the Law Committee, the House Committee, and the Schools Committee and were adopted.

PROPOSED PHARMACY COURSE

Mr. FIELDING referred to the proposed pharmacy course, and asked if it was to be compulsory.

The PRESIDENT said it was certainly not. It was an optional course to facilitate students in preparing for the examinations.

REPORTS FROM THE EXAMINERS

The registrar submitted reports from the examiners on the April examinations. For the Preliminary examination there were forty-six candidates, of whom twenty-eight passed, two with honours (Kieran Joseph Campbell and Gerald P. O'Keane). There were forty-three candidates for the Licence examination, of whom twenty passed, one with honours (Michael P. McGoldrick). For the Pharmaceutical Assistant examination there were fifteen candidates, of whom thirteen passed. For the Registered Druggist examination there were fourteen candidates, of whom nine passed.

THE PROPOSED NEW ACT

Mr. BROOKE KELLY proposed in accordance with notice of motion a resolution:—"To consider the steps which should be taken to alter the title of our new Act by the addition of the word 'drugs' before the word 'poisons' and embodying the definition thereof." He said his idea of the title of the proposed Act was a law "to regulate the sale of poisons, drugs and chemicals, and the practice of pharmacy."

The PRESIDENT said he had the draft of the proposed Pharmacy Act in his hand, and it distinctly stated what the Act was for:—"Whereas in the interests of the public and to provide that only persons possessing a competent practical knowledge of pharmacy and general chemistry shall be entitled to keep open shop for the compounding and dispensing of prescriptions and the retailing and selling of poisons—." The Act was entitled "An Act for the establishment of the Pharmaceutical Society of Saorstat Eireann and for the regulation of the practice of pharmacy, and the retailing and selling of drugs, and poisons, in Saorstat Eireann." He thought that completely answered Mr. Brooke Kelly's notice of motion. The definition of a drug was not embodied in the draft of the Act, nor was it embodied in the notice of motion.

Mr. BROOKE KELLY said his definition of a drug was "any substance, chemical (organic or inorganic, simple or compound), vegetable, animal or otherwise which may be used medically, surgically or hygienically, which is packed in such a manner as to form a single or a number of doses for administration or is labelled as a remedy for symptoms arising out of illness and for which a dose or direction for use is given." The object of the definition was, he said, to preserve to the chemist the sole right to sell such things as were being sold at present by every type of vendor and which were the chemist's legitimate trade. It was to safeguard their interests so far as the selling of serums and vaccines, therapeutic substances, dressings, disinfectants, etc., were concerned. He need scarcely add that the benefits accruing to the drug trade would be enormous, and the things which they might perhaps relinquish in their favour would bring better goodwill from other traders.

The PRESIDENT said he did not see how they were going to get the definition of a "drug" embodied in their Act of Parliament. The Committee who had charge of the matter had worked very hard at it for the past two years. The draft of the proposed Bill would be in the hands of the members confidentially within the next ten or twelve days; and he suggested that they should meet early on the day of the June meeting and discuss it.

The VICE-PRESIDENT: There is a feeling in the country that this thing should be embodied if it could be done.

(To be concluded.)

William Harvey

The tercentenary of William Harvey's "Exercitatio Anatomica de Motu Cordis et Sanguinis" has been celebrated in London this week by a series of academic and social functions attended by delegates from universities, colleges and scientific bodies in this country and abroad. The present year marks the three hundred and



WILLIAM HARVEY'S MORTAR.

The inscription reads: SOLI DEO GLORIA
MICHAEL BVRGERHVS ME FECIT
1625

(By courtesy of Captain E. Master-Foster,
Curator of the Folkestone Museum.)

fiftieth anniversary of Harvey's birth, as well as the three hundredth of the publication of his epoch-making book of fifty-two pages. Dr. Charles Singer has pointed out, in an article in "The Times" of May 14, that, on the testimony of a MS. of lecture notes, the discoverer of the circulation of the blood must have been teaching his new theory at least twelve years before he gave it to the world in print. Till his revolutionary experiments were made, medical science had for about 1,300 years been content to shelter under the authority of Galen's name, and to accept without question his account of the passage of the blood from one side of the heart to the other. Galen, it may be remembered, postulated the existence of invisible pores in the septum between the ventricles of the heart, and confused his

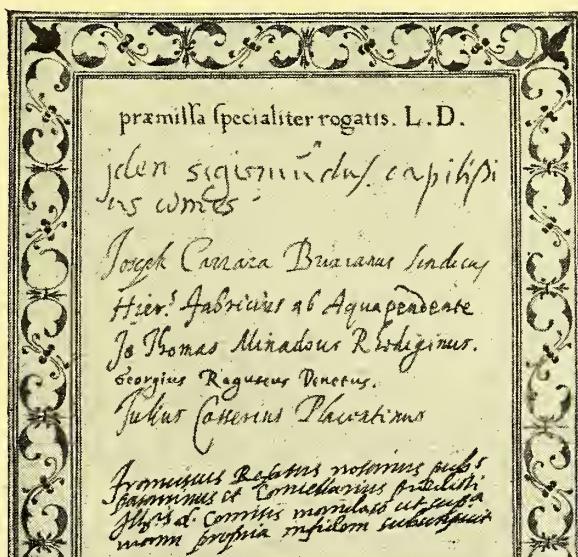


THE FIRST PAGE OF HARVEY'S DIPLOMA, CONFERRED BY THE UNIVERSITY OF PADUA

explanation (such as it was) with complicating references to imaginary "essences" or "spirits." This is not the only instance of research being held back by the influence of a theory, but it is perhaps the most striking one.

SOURCES OF INSPIRATION

In the sixteenth century came the first tentative approaches to the revelation of the "De Motu." Andreas Vesalius, a professor in the University of Padua, where Harvey gained his doctor's diploma (and where, incidentally, the first botanical garden was established), issued in 1543 his automical treatise, the first scientific monograph since classical times to deserve the epithet "great." Vesalius was at first of opinion that Galen's pores must be present in the septum of the heart, though he could not see them; later, however, he definitely stated that they did not exist. Servetus, a fellow student with Vesalius, investigated the passage of the blood through the lungs, with the result of adding to the confusion on the subject; and Cesalpinus of Pisa wrote on the "greater" circulation in a very involved style. Harvey arrived at Padua from Cambridge in 1598 or 1599, and graduated in the University as a Doctor of Medicine in 1602. We reproduce two passages from the reprint of the diploma prepared, with translation, in 1908, by Dr. J. F. Payne, librarian to the Royal College of Physicians. The diploma took the form of a small quarto volume, a form apparently peculiar to the universities of Northern Italy. The ornate borders of the document set off its prolix and grandiloquent wording. (On a rough estimate, it contains the same number of words as a page of THE CHEMIST AND DRUGGIST.) It



UPPER HALF OF A PAGE OF HARVEY'S DIPLOMA, CONTAINING SEVEN SIGNATURES

declares that Harvey is created a Doctor of Arts and Medicine, has been decorated with the customary insignia, and has received certain books of philosophy and medicine, a golden ring, the cap of a doctor, and the kiss of peace with the magistral benediction. The diploma was eventually presented to the Royal College of Physicians of London. Harvey's historic discovery was received with less antagonism than many brilliant innovations have been, and he had the satisfaction of seeing it generally accepted. He died in 1657, at the age of seventy-nine. The leaden chest enclosing his body in Hampstead Church, Essex, was removed to the Harvey Chapel within the building and placed in a marble sarcophagus in 1883: there is also in the same church a memorial tablet to him bearing a lengthy inscription in Latin.

THE Junior Branch of the S.W. (London) Branch of the Pharmaceutical Society have decided, for their first annual general meeting, to adopt a novel method of winding up the evening. The business is to be disposed of by 9 o'clock, after which all friends are invited to a musical evening, including community singing and a one-act play. A charge of one shilling will be made to cover the cost of refreshment.

Photographic Notes

THE LIOS EXPOSURE METER

A new exposure meter employing the extinction principle has been placed on the British market by R. F. Hunter, Ltd., 40 Doughty Street, London, W.C.1. The instrument is tubular in shape with a good-sized eyepiece at one end. It is $4\frac{1}{4}$ inches in length and 1 inch in diameter. To obtain the exposure reading, a movable ring is adjusted to the speed of the plate it is proposed to use, then on looking through the meter in the direction of the object to be photographed, the other end of the instrument is revolved until two adjacent blue semi-circles appear to fuse in such a way that the diameter of the circle becomes invisible. This blue "field" is on a white ground, which, it is claimed, makes for greater accuracy in recording. The exposure is then read off on the tube against the lens stop which it is desired to employ. In practice the meter is quite simple to use; it is suitable for outdoor work, for interiors, or for electric-light photography.

PHOTOGRAPHS IN COLOURS

A process of unusual interest for the production of coloured photographs has been developed by the Chromoscope Co., Victory House, Leicester Square, London, W., and there seems no reason why it should be beyond the abilities of the average amateur so soon as the requisite materials are available commercially. The tri-pack system is employed, but the order in which the respective sensitive emulsions are placed is different from that in other processes, while for printing, not only can any of the three-colour methods be used, but an entirely new way has been devised. The taking materials are to be available in the form of plates and roll-films. The emulsions are so arranged that the first two are in direct contact, and their selective nature is such that the first one (nearest the lens) is red sensitive and so prints in blue, the next is green sensitive and prints in red, and the third is blue sensitive and prints in yellow. It will thus be seen that the images most important in respect of giving form have the best definition, and the yellow image, the value of which is to give colour, takes the last place. Another feature of the new tri-pack is that similarity of exposure of the various sensitive surfaces has been obtained by regulating the speed and opacity of the emulsions. As regards exposure, the speed is stated to be at least as fast as that of the average roll-film. Development is carried out in the usual manner. From the three negatives prints may be obtained by imbibition, or preferably by the new process. In the latter three cellulose acetate films impregnated with various chemicals are used, and printing is done in the ordinary way. The three prints are then superimposed and a print in natural colours results. Any number of such prints can be made from the negatives, and the cost is stated to be between three and four times those normally obtained in black and white.

THE ALL-DISTANCE POCKET ENSIGN

Many advances in connection with camera design have been introduced to the public by Houghton-Butcher (Great Britain), Ltd., Ensign House, High Holborn, London, W.C.1, but rarely, if ever, can the company have achieved a more notable success than with the All-distance Ensign camera.

This apparatus, with its direct-vision view-finder and lens easily adapted for portraits or landscapes, appealed to a very large public on account of its simplicity, capability and low cost. It has been followed by a folding model, the All-distance Pocket Ensign, which will undoubtedly prove as popular as is the box-form. The body of the camera (which takes $3\frac{1}{4}$ in. by $2\frac{1}{4}$ in. roll-film), is made of metal, with

a black crystalline finish, and the fittings are nickelled. The lens, which is constructed on the all-distance principle, has two positions—one (portrait) for objects between three feet and nine feet, and the other (views) for objects further away than nine feet. The bellows are leather, and the shutter is a Synchro, allowing time, bulb and instantaneous exposures. Exposure may be further controlled by altering the diaphragm to "large," "medium," or "small." The view-finder is of the reflecting type, and is reversible. It will be seen that the All-distance Pocket Ensign retains all the virtues of its predecessor, except that it has no direct vision view-finder, but this is more than counterbalanced by its additional advantages.

AN INTERESTING REFLEX

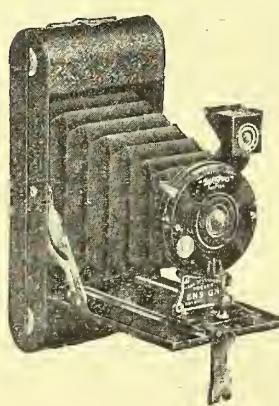
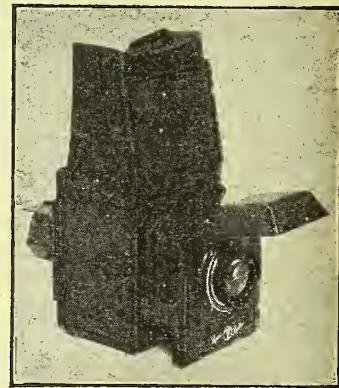
Though no camera could be described as the best general-purpose apparatus, it is generally agreed that a reflex possesses fewer limitations than other types.

Dealers interested in this class of instrument should obtain the latest catalogue of Thornton - Pickard Manufacturing Co., Ltd., Altrincham, which contains a great deal of practical information on these cameras, as well as roll-film and other models.

The apparatus illustrated is the 1928 Bijou Ruby Reflex (for plates or film-packs $1\frac{1}{2}$ in. by $2\frac{5}{8}$ in.), which marks a new note in design. It is claimed to be the "most perfect miniature reflex ever produced," and it is certainly equipped with every practical movement. The outside dimensions of the apparatus, when closed, are $5\frac{1}{2}$ in. by 5 in. by 5 in., and it weighs (with the lens) 3 lb. It is fitted with a Taylor-Hobson Cooke, Series x, f/2.5 lens; a self-capping time and instantaneous (allowing exposures 1/1,000th to 1/10th second) shutter; and a revolving back, which is a decided advantage over the reversing type. The mirror is everest and hand raised. This means of raising the mirror has been adopted by the company because, in actual practice, it is found that this method is smoother in operation and there is less risk of vibration during exposure. Another advantage of the hand-raised over the spring type is when photographing a quickly moving object it is possible to focus the position beforehand and partially raise the mirror in anticipation of the approach. In operating the camera only two movements are involved, namely, setting the shutter and making the exposure. The speed adjustment is recessed and covered with an unbreakable window beneath the camera, the body of which is made of mahogany and covered with grained morocco leather, while the focussing hood is of stiffened leather and hinged so as to give easy access to the ground glass. Another interesting point in connection with the camera is that it can be used in any position—even upside down. Three double plate-holders are included in the equipment.

PHOTOGRAPHIC DEALERS' ASSOCIATION

The annual meeting of the Photographic Dealers' Association was held at the Holland Park Hall, London, W.11, on May 10. Mr. J. G. Chapman, in the course of his presidential address, said the policy of the Association had always been one of advancement and the conducting of business on a high level. The photographic trade was one of the very few in which there was no price-cutting. The Association had always urged co-operation between dealers, and now there is to be organised co-operation. In conclusion, he paid tribute to Mr. F. J. Young and Mr. J. E. Hodd for their services, and expressed his regret that owing to ill-health the latter, after many years as treasurer, had found it necessary to resign. Following the annual reports by the



general secretary and the treasurer (showing at the end of 1927 a balance in hand of £5 10s.), Mr. Wallace Heaton, the honorary secretary, briefly reviewed the Association's arrangements with the manufacturers. Continuing, he said the membership of the Association was now approaching 4,000, and they hoped to obtain the required 2,000 by circulars, through the local associations, by efforts made by individuals and from headquarters. Referring to the financial position, Mr. Heaton pointed out that though actually the income with the 6,000 members would be £3,000, half of this had been promised to local associations. The manufacturers had been very good to them in connection with financial help, and if the proposed arrangement goes through the Association and the manufacturers would pay about equal contributions to the expenses of formation. Mr. F. J. Young, Ph.C., next dealt with membership, which, he said, amounted to 3,864, including previous members whose subscriptions were now due. As regards the 2,000 still required, he invited suggestions as to how they may be obtained and reviewed the methods already employed. He thought sufficient use had not been made of the manufacturers' house organs. Mr. Oglesby proposed, on behalf of the outgoing executive, that Rule 8 should be amended so that the travelling expenses of provincial delegates to council meetings should be paid. After some discussion as to what constituted travelling expenses, it was decided that the third-class return fare and £1 per day while on council business should be allowed. As the nominees for election to the Council coincided with the number of vacancies no postal ballot had been necessary, and the retiring officers (with the exception of the treasurer) were re-elected as follows:—President, Mr. J. G. Chapman; Vice-President, Mr. F. J. Young; Honorary Treasurer, Mr. A. Oglesby; Honorary Secretary, Mr. Wallace Heaton. It was decided to call an extraordinary general meeting in October. Then followed a general discussion on various matters, including anomalies in the lists of dealers supplied by the manufacturers, methods of obtaining the required new members, and co-operative societies as dealers.

Automatic Film Machines

CONSIDERABLE controversy rages regarding the sale of roll-films from automatic machines, and many of the leading dealers are averse to such a method of business. Nevertheless the machines have undoubtedly come to stay, and must therefore be regarded as another stage in the evolution of the photographic trade. Among the chief arguments put forward against the installation of these "silent salesmen" are that additional turnover is not sufficient to warrant hire or purchase; the disadvantage of not getting the customer in the shop; the risk of indiscriminate location. It is fairly well established that 50 per cent. of the exposures made by "snapshotters" take place on fine Sundays (or holidays), i.e., on the very days on which, generally, dealers' establishments are closed, and those who are interested in the matter would find it most instructive to keep a few records regarding the daily sale of films, amount of developing and state of the weather. Two or three wet days, or even a wet Saturday, is quite sufficient to reduce the sale of films to almost vanishing point, then if Sunday is fine, the would-be photographer finds himself without the necessary sensitive material. Sales lost when the establishment is closed, however, do not constitute the only argument in favour of automatic machines. It is by no means an unfamiliar occurrence when visiting a photographic establishment to find a previous customer requiring prolonged attention in connection with negatives or prints, with the inevitable result that prospective clients either become impatient and walk out, or perhaps do not enter the shop. This is quite likely to result in the lost sale of a film, and also developing and printing (both of which the machines are designed to overcome), or other articles. Another point in favour of the machines is that apart from places where rent has to be paid, their cost, once the purchase price has been paid, is practically nothing, particularly in view of the improvements incorporated in the present-day models. Location of machines is a somewhat involved problem, as at least one film manufacturer exercises some con-

trol in this respect. If the machine is purchased outright the maker is hardly entitled to decide where it may be placed, but so far as some of the film manufacturers are concerned they can limit the places from which their products are sold—and in this way the location of the machine. The chances of loss through spurious coins or films being obtained without payment may be dismissed, the one being almost and the other quite impossible with up-to-date machines. The fact that some people decline to leave their spools in the box fitted to the machine is probably due to the novelty of the situation, but in no sense an argument against the machine—the position is just as likely to be reversed and some new customers obtained. In the early days of automatic machines, when inserting the requisite coin, the purchaser invariably felt that he was not getting value for money, but that impression is rapidly becoming obliterated, and the dealer who states that the goods obtainable from his machine are equivalent in quality and price to those purchased at his shop removes any remaining doubts. The efficiency of the latest machines makes it certain that sales made in this manner will soon be extended to many classes of goods other than films and cigarettes, so that (whatever the commodity) the dealer who is first in the field is likely to reap the benefit of his enterprise.

NOTES ON MACHINES

Among the suppliers of machines for roll-films are Automa-Sales Co., Kingsbury House, King Street, St. James's, London, S.W.1; Houghton-Butcher (Great Britain), Ltd., Ensign House, London, W.C.1; and Kodak, Ltd., Kingsway, London, W.C.2. With perhaps one exception the machines are available in units for fixing to the wall or on a stand. The sizes vary somewhat, according to the manufacturer and film to be accommodated, but as a guide it may be mentioned that the units measure, on an average, 3 ft. 6 in. high, 10 in. wide, and 6 in. deep. The stand is a rule about 2 to 3 feet high, and of an appropriate width. Each manufacturer is prepared to sell the machines outright, while Messrs. Houghton-Butcher and Messrs. Kodak also let them on hire. The following are other interesting details regarding the machines, and fuller particulars may be obtained from the manufacturer concerned:

The Automa-film model is made of steel and enamelled in colours. It is substantially built, and the mechanism is reasonably weather-proof. It can be filled from stock (unless the film manufacturer has imposed restrictions); there is an indication when empty, and in that case, the coin slots also close. A single column machine costs £4 17s. 6d.; a double column £7; and the new model, which holds the three popular sizes of film (2½ in. by 1½ in., 3¼ in. by 2¼ in., 4½ in. by 2½ in.) £10. The receiving box for exposed spools is £1, and the price of the stands varies from £1 10s. to £2. In the case of one size of film two halfpennies (change) must be inserted in the carton, and a notice to that effect is on the machine.

The Ensign machines are made of steel with a cellulose enamel finish in a colour which associates them with the carton on the film. The film is specially packed and the exposures regulated so that it may be purchased for one shilling. This is claimed to be of advantage to the dealer and the customer—the latter is not obliged to hunt for the odd coins, while the machine holds more films. The hiring fee varies according to the machine, No. 1 (capacity 48 E27, 36 E20) being £1 10s. per annum; No. 2 (52 E20, 44 E16), £2 10s. per annum; No. 3 (45 E20), £1 per annum. Particulars of purchase may be obtained on application.

The Kodak machines are of steel and finished with cellulose enamel. All machines deliver the standard Kodak carton at standard prices. One shilling and two pennies operate the machines containing No. 2 Brownie and Vest Pocket Kodak films, one shilling and one sixpence operate the machine containing No. 1A Kodak film—two halfpennies being returned with each No. 1A spool. The general decoration of the machines follows closely that of the Kodak film carton and so links up with the company's publicity. The selling price of the double column unit is £8, and the hiring rental £2 10s. per season; the single-column machines cost £6 10s. per unit, and the hiring rental is £2 10s. per season. The stands are extra.

Society of Chemical Industry

THE Chemical Industry Conference, organised by the Society of Chemical Industry in co-operation with its London Section and Chemical Engineering Group and the Institution of Chemical Engineers, was held in London from May 11 to May 15.

Chemical Engineering Group

The annual meeting of the Chemical Engineering Group of the Society of Chemical Industry was held at Les Gobelins Restaurant, Heddon Street, London, W.1, on May 11. The business meeting for group members was followed by an informal dinner and address by Mr. Francis H. Carr, C.B.E., president of the Society.

Some Chemical Engineering Aspects of the Fine Chemical Industry

[ABSTRACT]

The speaker, in his opening remarks, said that he proposed to deal with the use of ultra-violet light in chemical industry, with special reference to its use in the production of a substance of medicinal and dietetic value, namely, vitamin D. When a person was exposed to sunshine there was produced in that person a substance for the utilisation of calcium and phosphate. The body could make use of these substances because it had stored up vitamin D, and a sufficiency was stored to carry on that metabolic change. Persons not exposed to a sufficiency of sunshine, as, for example, those in this country, must have an accessory diet factor which was present in cod-liver oil, milk, butter, etc. Medical men have administered cod-liver oil to supply the deficiency of vitamin D necessary for calcium metabolism. Calcium starvation took place where there was a lack of sunshine, and it was discovered that this could be obviated by exposure to ultra-violet light and sunshine. Investigation of the properties of cod-liver oil was next made. It was found that ergosterol was present in substances grown in darkness, and was also widely distributed in nature. Ergosterol exposed to ultra-violet light was 200,000 times as active as cod-liver oil, and the isolation of ergosterol and its exposure to ultra-violet light was now a commercial proposition. The process was best carried out in the absence of oxygen, as in the presence of oxygen ergosterol formed a peroxide which was inactive. After irradiation carried out under control the substance would keep for long periods. Ergosterol was a compound allied to cholesterol, having three double bonds, and its absorption spectrum showed a characteristic band at 2,800 Å units. During activation a change in the absorption band was observed, and this change in the spectral band of irradiated ergosterol served as a control. Tested by the test on rats, which are kept on minute proportions of ergosterol, its beneficial action is seen when daily doses of as little as 10⁻⁵ gm. are given. The lecture was illustrated by lantern slides showing the spectrum through ordinary and vita glass, the range of electro-magnetic waves, mercury-vapour lamp rays, mercury vapour lamps, cholesterol, an ultra-violet light water steriliser, and a battery of water sterilisers for a swimming bath in America erected by Kelvin, Bottomley & Baird, by whom the apparatus for the evening's experiments was lent. The lecturer gave a demonstration with the mercury-vapour lamp, and showed how foreign bodies could be detected in substances which were fluorescent (or vice-versa) in ultra-violet light. This was a practical application in chemical and scientific industry. The adulteration of cottonseed with *nux vomica*, the contamination of table-jelly squares by bacteria, and impurities in chemicals such as mercuric chloride, mercurous chloride and caustic soda sticks were demonstrated. Paraffin wax and vaseline exhibited fluorescence when placed in a beam of the light, and the age of eggs could be determined also by the degree of fluorescence exhibited. Titanium white and zinc white, both used in the colour industry, were distinguished, the zinc compound being fluorescent. The presence of zinc in zinc ore could also be detected. Another application was to distinguish between artificial and natural silk. A solution of neutral quinine sulphate, when exposed to ultra-violet rays,

exhibited very little fluorescence. To this solution, while still exposed to the beam, sulphuric acid was added so as to form the bisulphate, and the solution assumed a brilliant bluish-violet fluorescence. Ammonia now added resulted in the disappearance of the fluorescence, thus demonstrating the formation of the neutral salt. The delicacy of the Gutzeit test for arsenic could be increased by the use of the quartz lamp, as the arsenic stain on zinc, probably invisible in white light, could immediately be detected in a beam of ultra-violet light. Another application was for the detection of beads and necklaces made of casein, artificial amber, etc.

Rothamsted Experimental Station

A visit was paid to the Rothamsted Experimental Station, Harpenden, on May 12. The Experimental Farm was visited in the morning, and in the afternoon the party was conducted over the laboratories of the Experimental Station, and afterwards entertained to tea by invitation of Sir John Russell, F.R.S., director.

Conference Proceedings

At the conference meeting in the Hall of the Institution of Civil Engineers, Great George Street, Westminster, S.W.1, on May 14, a paper on "The Fuel Industries and the Work of the Chemical Engineer" was read by Sir Arthur Duckham. Professor G. T. Morgan, F.R.S., read a paper on "The Chemical Study of Low-Temperature Tar." "Water Purification" was the subject of a paper by Sir Alexander Houston. A paper on "The Pollution of Tidal and Non-Tidal Rivers" was read by Mr. J. H. Coste.

Conference Dinner

The Chemical Industry Conference Dinner was held in the Connaught Rooms, Great Queen Street, W.C., on May 14, Mr. F. H. Carr, C.B.E., president of the Society of Chemical Industry, in the chair. In the absence of Sir Philip Cunliffe-Lister, K.B.E., M.P., the toast of "The British Chemical Industry" was proposed by Mr. H. G. Williams, Parliamentary Secretary to the Board of Trade, who said that there was an opening for the first-class and efficiently trained chemist. There were further fields to conquer, as in the last eighteen months the Board of Trade, under powers conferred on it, had had to remit duties on forty-five separate chemical products, for the reason that those chemicals were not manufactured anywhere in the British Empire and were not likely to be produced here within a reasonable period. Sir Alfred Mond, M.P., replying, referred to heavy chemical production in Britain, and said that there was scarcely an industry in which a chemist was not employed. With reference to the petrol tax imposed under the Budget, he said that it might have a far-reaching effect on the utilisation of our coal in the liquid form. The encouragement the petrol duty would give in helping towards that solution would be considerable. Instead of our being an importing country, we might become a self-contained country as far as oil was concerned. This was second only to the production of synthetic nitrogen, which was one of the key defence industries. The manufacture of oil fuel would have effects on the development of the coal resources. High-temperature and high-pressure syntheses were unlimited, and the chemical industry ranged over an enormously wide field. Sir David Milne Watson, who also responded, said that the British chemical industry was more than holding its own. A new industry had been developed based on high-pressure gas reactions. The other toast, that of "The Chairman," was submitted by Sir Alexander Gibb. Dancing followed.

Final Session

At the meetings on May 15, in which the British Science Guild were invited to participate, an address was given by Sir Alfred Mond, president of the Guild, on "Scientific Research as Applied to Industry." Sir John Russell, director of the Rothamsted Experimental Station, gave a paper on "The Part Played by British Workers in the Application of Fixed Nitrogen to the Soil." A paper on "Developments in the Heavy Chemical Industry" was read by Lt.-Col. C. P. Pollitt.

Trade Notes

LANGHECK & CO., LTD., 5 New London Street, London, E.C.3, advertise self-fixing bottle caps in this issue.

BEMAX.—Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, are now the distributors of this preparation.

DESITIN WOUND SALVE.—Mr. W. Bredt, 41 Great Tower Street, London, E.C.3, has been appointed the agent for the Desitin Chemical Works, Hamburg.

PARTICULARS of the special courses for pharmaceutical students at the Bradford Technical College may be obtained on application to the Principal.

HINDS HONEY AND ALMOND CREAM.—Lysol, Ltd., Raynes Park, London, S.W.20, announce the coming into force of new terms in respect of this preparation, for which they are the sole distributors.

THE SEMPROLIN CO., LTD., Carmex House, 18 Leather Lane, London, E.C.1, ask wholesale and retail chemists to examine their stocks of the company's preparations, and in the event of any being found which are out of condition to communicate with the makers.

OSBORNE, GARRETT & CO., LTD., London, Birmingham and Glasgow, are the sole distributors in this country for the cosmetic preparations made by The Ross Co., New York (Winx, Cream Winx, Cake Winx and Pert). The prices are given elsewhere in this issue.

WATERSPRITE FACE CLOTHS.—Solport Bros., Ltd., 184-190 Goswell Road, London, E.C.1, call attention to the special trial assortments of their Watersprite face cloths. These are put up in two ranges—in display cartons of two dozen—namely, assortment G 226, containing four of each of the six styles, and assortment G 227, containing six of each of the most popular numbers. Chemists who are not already acquainted with the line will find this an excellent way of introducing the cloths.

COATES & COOPER, 41 Great Tower Street, London, E.C.3, are the sole concessionaires for the United Kingdom for the Simplex aseptic clinical thermometer. This instrument consists of an outer metal case into the top of which screws the thermometer. In the other end of the case is a glass tube (resembling a miniature test-tube) into which is placed an antiseptic solution. When placed in the metal container the tube touches an indiarubber ring, and when the thermometer, which, by the way, is made by G. H. Zeal, Ltd., is inserted, it forms the stopper. A clip is fitted on the case so that it may be carried in the pocket. The instrument should make special appeal to the medical and nursing professions, and it may be obtained through the usual wholesale channels.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (i.e. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Citric Acid.—A method of treating fruit pulp, wood dextrans, gums and similar pectinous bodies, consisting in adding thereto the active enzymes of citrus fruits substantially devoid of essential oils, and subjecting the mixture to conditions suited to the enzymic production of citric acid. (The Distillers Co., Ltd., Edinburgh. 287,604.)

Civetone.—Civet in an alcoholic solution is boiled with alkaline hydroxide and the soluble alkaline salts of the fatty acids transformed by addition of solution of calcium chloride into insoluble calcium salts, which are separated by filtering. The residue is extracted by ether or benzene, the oil distilled *in vacuo*, and the fractions treated with a semi-carbazide solution to form civetone semi-carbazide. The civetol contained in this oil is obtained by extraction with petroleum ether, and oxidised with chromic acid in acetic solution. The civetone is withdrawn from the products of oxidation by transforming it into its semi-carbazide. (M. Naef & Cie, Geneva. 267,893.)

Trade-mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1928, p. 329.

(From "The Trade-marks Journal," May 2, 1928.)

- "LEVISSIMA"; for magnesia (1) and for toilet magnesia (48). By The Washington Chemical Co., Ltd., Washington Station, County Durham. 488,882; 487,780. (Associated.)
- "ADRONOL"; for all goods (1). By I. G. Farbenindustrie A.G., Mainzerlandstrasse 28, Frankfort-on-Main, Germany. 489,610.
- "BURGOYNE'S"; for chemicals (2) and for food substances (42). By Burgoyne, Burbidges & Co., Ltd., High Street South, East Ham, E.6. 485,794/795. (Associated.)
- "PLANESOL"; for disinfectants (2). By May & Baker, Ltd., Church Road, Battersea, S.W.11. 486,986.
- "EXENOL"; for disinfectants (2). By Quintin Moore & Sons, 79 Fountainwell Road, Springburn, Glasgow. B488,046.
- "PRESIDENT"; for chemicals (2). By Co-operative Wholesale Society Ltd., 1 Balloon Street, Manchester. 489,606.
- "PLAIMAR" on circular device of map of Australia (map device disclaimed); for medicinal essential oils (3). By Plaimar, Ltd., 169 Havelock Street, West Perth, Australia. 483,245.
- "TRANSKUTAN" and "TRANSCUTAN" printed diagonally on oblong label device; for a medicated bath preparation (3). By W. J. Gladitz, 82 Victoria Street, London, S.W.1. 485,353/1354. (Associated.)
- "YESTAMIN"; for medicinal chemicals (3) and for food substances (42). By The English Grains Co., Ltd., 30 Union Street, Burton-on-Trent. 487,898/899. (Associated.)
- "FLU-DENT POWDERS" on label device; for medicines for colds, influenza, rheumatism and neuralgia (3). By Flu-Dent Chemical Co., Maudsley Terrace, Victoria Road, Thornton-le-Fylde, nr. Blackpool. 488,088.
- "BI-RO"; for vaccines (3). By La Biothérapie Société Anonyme, 3 rue Maublanc, Paris XVe. 486,131.
- "VALIXIR"; for all goods (3). By Cooper, Son & Co., Ltd., 80 Gloucester Road, London, S.W.7. 489,128.
- "LEGERINE"; for foot arch supports (11). By The Scholl Manufacturing Co., Ltd., 38 Granville Square, London, W.C.1. 489,311.
- "ZOBEC"; for surgical instruments, etc. (11). By Johnson & Johnson (Gt. Britain), Ltd., 106 Golden Lane, London, E.C.1. 489,375.
- "KUBIST"; for perfumery, etc. (48). By Goodall, Backhouse & Co., White Horse Street, Leeds. 487,410. (Associated.)
- "VAL FLEURI"; for perfumery, etc. (48). By Myosotis, Ltd., 7 Hanover Square, London, W.1. 489,047.
- "SAYMOUR"; for perfumery, etc. (48). By G. Lange, 230 rue Marcadet, Paris. 489,877.

(From "The Trade-marks Journal," May 9, 1928.)

- "NIPSET"; for veterinary medicines (2). By The Sussex Hatcheries, Ltd., 185 Pollakshaws Road, Glasgow, S.1. 486,479.
- "VAXA"; for serums and vaccines (3). By P. Boucard, 30 rue Singer, Paris. 486,615.
- "IDEENIT"; for medicinal preparations of iodine (3). By The Peronia Co., Derby Buildings, Long Row, Nottingham. 487,458.
- "NIP-A-KOFS" on shield device; for cough sweetmeats (3). By J. Finegan & Son, 279A High Street, Smetwick, Staffordshire. B 487,708.
- "DIGIPAN." By H. Templer, Flugplatz 6, Berlin-Johannisthal, Germany. 487,840.
- "IODISTICK"; for medicinal chemicals (3). By H. R. Napp, Ltd., 3 & 4 Clement's Inn, Kingsway, London, W.C.2. 487,938.
- "GRAVITOL"; for medicinal chemicals (3). By Bayer Products, Ltd., 31 Basinghall Street, London, E.C.2. 489,382.
- "SEDORMID"; for medicinal chemicals (3). By The Hoffmann-La Roche Chemical Works, Ltd., 51 Bowes Road, London, N.13. 489,862.
- "ZEISSIKON"; for all goods (8). By Zeiss Ikon A.G., Schandauer Strasse 76, Dresden A., Germany. 486,438. (Associated.)
- "AMULETTE"; for goods for surgical or curative purposes (11). By "Vulkan" Gummivarenfabrik Weiss & Baessler A.G., 26-32 Kaiserstrasse, Leipzig-Lindenau, Germany. 488,158.
- "KLIPAPADHR"; for all goods (11). By F. W. Holland, 46 South Audley Street, London, W.1. 489,266.
- "TENASITINE"; for adhesives (39). By Kay Brothers, Ltd., St. Petersgate, Stockport. 485,482. (Associated.)

Personalities

SIR ALFRED MOND has been awarded the gold medal of the Institution of Mining and Metallurgy.

COUNCILLOR W. H. GRIMSHAW, chemist and druggist, Blackburn, has been elected an alderman of the borough.

MR. H. W. STILES, chemist and druggist, Doncaster, has been elected senior vice-president of the local chamber of trade.

FOLLOWING sixteen years' service to the town, Councillor Percy Knott, chemist and druggist, Bolton, has been elected an alderman.

A CERTIFICATE OF NATURALISATION has been granted to A. Kluger (known as Arnold Clark), medical practitioner, 83 Amhurst Park, Stamford Hill, London.

MR. G. B. SHATTOCK, son of Mr. J. B. Shattock, chemist and druggist, Lancaster, has been granted a commission in the Alberta (Canada) Mounted Rifles.

AT a meeting of the Abbey Lodge (No. 2030), Westminster, London, S.W., on May 14, Bro. Charles Andersen (Evans Sons Lescher & Webb, Ltd.) was installed W.M.

THE Minister of Health has appointed Mr. A. B. MacLachlan to be a principal assistant secretary, and Mr. M. Heseltine, C.B., to be an assistant secretary of the Ministry.

MR. THOMAS BROWN, chemist and druggist, Great Grimsby, who celebrated his ninety-fifth birthday on May 9, enjoys excellent health and takes an active part in the conduct of his business.

MR. AND MRS. DAVID VAUGHAN, Oswestry, recently celebrated their golden wedding. Mr. Vaughan, who is eighty-eight years of age, is Oswestry's oldest magistrate, and was formerly in business as a chemist.

ALDERMAN F. W. WHITWELL, chemist and druggist, Peterborough, has been appointed a justice of the peace. A portrait and biography of Mr. Whitwell was published in the "Peterborough Advertiser" of May 4.

AT the annual meeting of Provincial Grand Lodge, West Yorkshire, held in Bradford, recently, Worshipful Master S. N. Pickard, Past Master of St. John's Lodge, Dewsbury, was appointed Grand Provincial Pursuivant.

MR. MORTIMER BYE, scientific director of the Wm. S. Merrell Co., Cincinnati, has been elected second vice-president of the company. Mr. Bye has had a lengthy and varied experience in practically every branch of the pharmaceutical and chemical industry.

COLONEL W. F. WYLEY (Wyleys, Ltd., manufacturing chemists, Coventry), the Right Worshipful Prov. Grand Master, attended the celebrations on May 13 in connection with the two hundredth anniversary of the formation of a Masonic lodge at Warwick, and read the lesson during the service at St. Mary's Church.

Births

Notices for insertion in this column must be properly authenticated.

ARTHUR.—At Lenzie, on May 13, the wife of Frank Arthur, chemist and druggist, of a daughter.

KIRKBY.—At 26 Hartington Road, Millhouses, Sheffield, on May 10, the wife of Dr. W. A. Kirkby, of a daughter.

Deaths

FLETCHER.—On May 9, Mr. Samuel Fletcher, dentist, chemist and druggist, 33 Parker Lane, Burnley, aged eighty-five. Mr. Fletcher was a native of Burnley, and served his apprenticeship there to the late Mr. George Stevenson, a dentist and chemist. After experience in Bradford he opened in business on his own account prior to the passing of the Pharmacy Act of 1868. His wife died in 1912, and he lost one of his sons during the European war.

HOYLES.—At Wellington, Somersetshire, on May 7, Mr. Henry Richardson Hoyles, Ph.C., aged sixty-four.

MARTIN.—At 14 Knowehead Crescent, Kirriemuir, on May 9, Mary Christie, wife of Mr. Thomas Martin, chemist and druggist.

MEEHAN.—A cable has been received in London announcing the death, on May 9, of Mr. Charles R. Meehan, president of the Arthur A. Stilwell Co., essential oil distillers and dealers, 28 Cliff Street, New York.

ROBERTSON.—At Alexander Hospital, Coatbridge, on May 7, Mr. James George Robertson, chemist and druggist, Coatbridge, aged sixty-three.

WAGSTAFF.—On May 13, after a long illness, Mr. John Wagstaff, representative of Thomas Christy & Co., 4-12 Old Swan Lane, London, E.C.4. Mr. Wagstaff was with Messrs. Christy for more than twenty years, the only break in the time being the period of his active service with the Army in France during the recent war. He represented his firm in Yorkshire, Leicestershire, Nottinghamshire and the Eastern Counties, and his death is deeply regretted by his principals and colleagues in London.

WALLACE.—At Broomknowes, Dovecot Road, Corstorphine, Edinburgh, on May 9, Mr. William Wallace, chemist and druggist. Mr. Wallace, who qualified in 1886, carried on business in Ardrossan and Saltcoats, Ayrshire, for many years, and retired about three years ago.

WILLIAMSON.—At Ingleside, Preston, North Shields, on May 11, Mr. Bamford Williamson, retired chemist and druggist, aged seventy-one. Mr. Williamson succeeded his father, the late Mr. Bamford Williamson, in business at South Shields, retiring seven years ago. He is survived by a widow, four sons and a daughter.

WILLIS.—On May 10, Mr. Charles John Willis, chemist and druggist, Easton and Fortune's Well, Portland. Mr. Willis qualified in 1889.

WILLS.—On May 12, Mrs. Lucy Ann Wills, 86 Rodenhurst Road, Clapham Park, London, S.W.4, the beloved wife of Mr. G. S. V. Wills, Ph.C., founder and principal of the Westminster College of Pharmacy, 190 Clapham Road, S.W.9, aged eighty-two. The funeral took place on May 15 at Kensal Green Cemetery, N.W.

Wills

MR. EDWARD PICKERING, of 1 Mortimer Crescent, St. John's Wood, N.W., a director and secretary of F. Newbery & Sons, Ltd., who died on February 4, left estate of the gross value of £5,885 11s. 6d. with net personality £4,086 6s. 2d.

ALDERMAN FRANCIS CORDER CLAYTON, Ph.C., of 18 St. James Road, Edgbaston, Birmingham, manufacturing chemist, who died on February 22 last, left estate of the gross value of £136,445 11s. with net personality £130,420 1s. Many bequests of a public character are made.

MR. HENRY LONSDALE WRATHALL, of Frenchwood, Church Road, Huyton, Lancs, chemical and general produce merchant and broker, of Wrathall & Co., of The Albany, Oldhall Street, Liverpool, left estate of the gross value of £77,491 4s. 10d., with net personality £72,976 0s. 3d.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:
A/55. Anticivium
W/155. Dandy perfumes
W/155. Dunville's cinnamic ester
M/155. Eccles weight reducer
R/35. Gerault's lait astrin- gent beauté de teinte
H/125. Idonco soap
T/35. Petal's Froisses extrait de Lauvin
W/145. "Sanatory" toilet rolls
R/95. Wells ozone inhalers

Observations and Reflections

By Xrayser III.

While Appreciating

the vigorous tone of the article in which you point out the evil effects of taking it lying down when we are persecuted by the officials of local authorities (*C. & D.*, May 12, p. 600), I am none too hopeful of the necessary concerted action being taken with a view to a stop being put to pettifogging interference with our business. Not only ought we to fight every case of the kind to which you direct attention, but the fight should be continued until the resources of the law have been exhausted, and after that recourse should be had if necessary to action in Parliament, with a view to amendment of the statutes which are being abused by persons clothed with a little brief authority. It may soon be difficult for people to get what they actually want from the chemist's shop unless we are prepared to spend a lot of time in explaining, and then not always to the satisfaction of the customer, that what is asked for is not what is required. But something of this nature would appear to be necessary unless we make a point of always supplying B.P. articles when customers ask for what they want under B.P. names.

Why not Honour

the memory of the late Sir William Glyn-Jones by making the necessary provision for continuing the good work he did as a fighter, and restoring the tradition that no position shall be abandoned by us to the encroachments of the food and drugs inspector and his sniping methods? If, as part of our trade organisation, there existed arrangements for fighting every case of the kind you have denounced, and of appealing against all unsatisfactory decisions, we should soon find that local authorities would hesitate before sanctioning prosecutions on points of a hair-splitting nature. Possibly I may be told that arrangements already exist for the desired purpose, and that suitable action is always taken when "worth-while" cases come up for consideration; but that does not represent the Glyn-Jones spirit. You ask if chemists have no grit left in them; and I think the best method of ascertaining the correct reply to your question would be to ask chemists to subscribe to a Glyn-Jones memorial which should be designed to revive the Glyn-Jones fighting attitude.

It Is True,

as one of your correspondents states, that medical benefit is being administered on lines which tend to make Health Insurance a local rather than a national affair. What doctors may order for their insured patients in one area may not be ordered in another, and this absurd state of affairs sometimes has the effect of enabling a chemist on one side of a street to supply without question what may not be so supplied on the other side of the same street. If a doctor happens to be on the panel for two adjacent areas, he often finds it necessary to stop to reflect whether the preparation he considers most suitable for a particular case may be ordered for that patient. The same thing applies to chemists who have contracted to supply drugs and appliances in more than one area. Obviously, the remedy for this state of affairs is that the same arrangements regarding what may, or may not, be supplied for the treatment of insured persons ought to prevail in all parts of the country, and it should not be possible for Insurance Committees to vary the regulations in any circumstances. Some day, perhaps, the Ministry of Health will take power to decide what are proper and sufficient medicines. Until then, I fear we shall continue to be afflicted with the outcome of the varying fancies of Insurance Committees and their advisers. But here again something like the Glyn-Jones fighting spirit would settle the matter quickly, by instituting proceedings in the courts when Committees refused payment of accounts for articles which the doctors who prescribed them thought necessary for the proper and sufficient treatment of their patients.

Sheffield Pharmacists

are to be congratulated upon their decision to link up pharmaceutical education in their district with the local university. It seems inevitable that arrangements for teaching what it is customary to call the pure sciences should gravitate sooner or later to university colleges and technical schools, the more especially as the increasing cost of the desired equipment for teaching will tend to eat up the profits earned by private schools for this class of work. But there will always, I imagine, be plenty of profitable work for private tutors who can coach students for examinations. Education through teaching by means of lectures and demonstrations is quite distinct from preparation for examination, and it is in connection with the latter work that coaches will continue to be needed if the time ever arrives when university colleges and technical schools undertake the scientific education of all pharmaceutical students.

If there were

a divorce of pharmacy from perfumery, the pharmacist, I imagine, would deplore the loss of an element of his business which keeps him in daily touch with the modes and fashions of society. Your note on orris root calls to mind one of the most curious customs associated with what is frequently called violet powder, although the numerous talc preparations on the market now must have diminished the sale of the older article to a large extent. In the seventeenth and eighteenth centuries the practice of powdering the hair was extensively carried on by the leaders of fashion. It seems to have been introduced about the same time as wigs, and it may have been done simply to mitigate the discomfiture felt at the approach of old age indicated by the greying of the natural hair. There is, I think, another not unlikely reason, namely, the need to mask the pulvular dressing of sublimate often necessary to keep within durable limits the fauna which otherwise would have found a perdurable habitation in the mountainous thickets of hair which adorned the heads of the fashionable world. Throughout the eighteenth century the employment of hair powder was so general that it is scarcely possible to find any work of prose or poetry dealing with the customs of that period without finding some direct or indirect allusion to it. The prevalence of the fashion induced William Pitt to attempt to make it a means of contributing to the revenue, and he imposed a tax in the form of a licence for those who wore hair powder. This was done in 1795, and, as might have been expected, Pitt found he had initiated the decline of the use of this article, which in the first year of its taxation contributed about £200,000 to the Exchequer.

The Basic Material

for hair powder was powdered starch. To this were added other ingredients for the purpose of perfuming it, and of these one of the chief was powdered orris root. The ordinary violet powder has a simple composition; it consists for the most part of the starch, with an eighth part of powdered orris and an added perfume of otto of rose and essence of bergamot. The following is an example of those employed in the middle of the eighteenth century. "An excellent perfuming powder for the hair:—Take iris roots in fine powder one ounce and a half, benjamin, storax, cloves, musk, of each two drachms, being all in fine powder, mix them for a perfume for hair powder. Take of this perfume one drachm, rice-flower impalpable one pound, mix them for a powder for the hair. Note, some use white starch, flower of French beans and the like." There was not only the violet hair powder, but there were others of rose, musk, civet, ambergris, etc., which were used according to the taste of the wearer. This is a formula for the perfume of a decidedly violet odour:—"Drop twelve drops of genuine oil of rhodium on a lump of loaf sugar, grind this well in a glass mortar, and mix it thoroughly with three pounds of orris root." This mixture had to be kept in a closed vessel, and a proper quantity added to the thoroughly dried hair powder when required.

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Editorial Articles

Early Closing and Sunday Trading

WITH the appearance in print of another Bill dealing with the times during which retailers may keep open their premises, it would seem necessary for chemists to bestir themselves and see that nothing is allowed to slip through unnoticed that may add to the difficulties and perplexities from which pharmacy already suffers at the hands of bureaucrats. This latest measure, introduced into the House of Commons on May 4, is known as the Shops (Sunday Trading Restriction) No. 2 Bill, and deals exclusively with the restriction of Sunday trading and the opening of shops on that day. It thus covers ground not touched by the Shops (Hours of Closing) Bill, which has now been reprinted as amended by Standing Committee A. The latter deals only with closing generally—not distinguishing between Sunday and any other day—and contains no special mention of chemists' shops, the only reference to these being in the first schedule which gives a list of "Transactions not prevented by this Act or by Closing Orders made under the Principal Act" (i.e., the Act of 1912). In that list we read "Medicine or medical or surgical appliances so long as the shop is kept open only for such time as is necessary for serving the customer." It would appear, therefore, that this No. 2 Act is intended by its authors to be complementary or supplementary to the earlier Bill for the passing of which the Government have been giving special facilities. It provides that every shop, save as otherwise provided, is to be closed for the serving of customers on Sunday; but this is not to apply to any shop in which the only trade or business carried on is one of the following (see First Schedule):—(1) The sale by retail of intoxicating liquors; (2) the sale of refreshments for consumption on the premises (including the business carried on at a railway refreshment room); (3) the sale of motor, cycle, and aircraft supplies and accessories; (4) the sale of newspapers and periodicals; (5) the sale of medicines and medical and surgical appliances. "The motive which underlies the Bill," says a writer in our legal contemporary the "Law Journal," "is left to the imagination; but one assumes that Parliament, while accepting in general the principle of one day's rest in seven, would not stand idly by while the Sunday opener enjoyed an unfair advantage over the Sunday closer. Certain trades are exempt from section 1—beer and spirits, refreshments, motor supplies, newspapers and periodicals, medicines." Those responsible for the Bill evidently intend to sweep and carry away the last relics of the old law touching Sunday observance. That old law includes the statute of 1625 known as "An Act for punishing divers Abuses committed on the Lord's Day," which, after referring to the extent to which religious service "in very many places of this realm hath been and now is profaned and neglected by a disorderly sort of people," goes on to forbid bear-baiting, bull-baiting, and common plays and "interludes" everywhere. This the No. 2 Bill proposes to repeal in *toto*—as also an Act of 1627 forbidding Sunday travel

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Write early to

THE PUBLISHER.

and meat-slaughtering, together with the Sunday Observance Act, 1677, which made attendance compulsory at divine service—and the more modern Sunday Acts. So we arrive at a definitive objective—the sweeping away of the old statutes and the substitution of a new statute defining the whole position as to retail trading. How will that affect the pharmacist? That is the issue with which we are concerned. It seems to us that there is a strange conflict between the provision in Sections 1 and 2 to the effect that all shops shall be closed on Sunday, except those mentioned in the First Schedule, among which is included "the Sale of Medicines and Medical and Surgical Appliances," and the provisions of Sections 4 and 5, whereby local inquiries may be held for making exemption orders in regard to certain classes of shops set out in the Second Schedule. In that Second Schedule it is provided that in certain circumstances a "chemist and druggist" may be allowed to open on Sundays from 8 a.m. to 10 a.m. only. The two things seem so hopelessly inconsistent that it is impossible to make them agree with one another. The procedure before a "chemist and druggist" who does not sell medicines and medical and surgical appliances can obtain authority to open his shop for two hours on a Sunday morning is as follows. The local authority must first be satisfied that a *prima facie* case exists for making an extension order; they must then give public notice in a prescribed manner that they intend to make an order affecting that particular trade, and then must await objections and take these into consideration. Having made up their mind that it is expedient to make the order and that the occupiers of at least two-thirds in number of the shops to be affected by the order approve the order, they may make the order. Notice of this order must then be submitted to the Home Secretary, who may consider any objections to it and may either disallow or confirm it with or without amendment. Then it must be laid for forty days before both Houses of Parliament for final approval. One has only to reflect upon this procedure as affecting the chemists in a small town to see the absurdity of the situation that might arise if only some active and intelligent local official felt inspired to interest himself. We have never failed to recognise the fact that difficulties do often arise about securing unanimity in the matter of early closing on week-days, where there is always the possibility of one or two obstinate persons standing out against the wish of the majority of their fellows. But so far as pharmacists generally are concerned, we cannot help feeling that there is little to complain of at the present time. The early closing schemes in operation throughout the country seem to be working very well so far as they are concerned; and it appears to us that the chemist might very well claim to be left out altogether where questions of Sunday opening and closing are in point in any new legislation. Very few chemists exist who would not be glad to close altogether on Sundays were it not that their duty to the community necessitates their being open some part of the day. In London and other big centres it has been found necessary, in the public interest, for some establishments to keep open all night and all day on Sunday as well. We cannot find in this No. 2 Bill any provision for exempting such establishments. We know, also, that for many years past it has been the practice for chemists in some districts to arrange mutually to take turns in opening their shops on Sundays, so that the public may be in a position to obtain necessities. What need is there for legislative interference there again? After all, the chemists are numerically a small body. They are necessary to serve the community in a far different and more real sense than, say, tobacconists or motor-accessory dealers. Why not let them make their own Sunday arrangements without worrying them with

inquiries, exemption applications, and all the harassing regulations now proposed? We have no doubt whatever that, without in any way discussing the law relating to week-day early closing or objecting to any necessary amendment in that direction, Parliament could be induced, by proper representations, to exclude altogether the chemist and druggist from the operation of any new statute relating to Sunday opening.

Council Election

THE election to the Pharmaceutical Society's Council for 1928 will always be among the unusual ones in that both the president and the vice-president of the Society were seeking re-election. Another remarkable feature was the inanity of those who ventured to challenge the retiring councillors. Surely, this repetition of seven challenging candidates pressed forward by one particular interest without even taking the trouble to do spade work in the general organisation or taking the trouble to understand the needs is killed for ever. New candidates, younger men, enthusiastic chemists, keen on studying community interest and working for it, are more necessary as the Council shows increase in the average age; but it ought to be worked for, or the thing is a travesty of democracy. The circular issued by the seven challengers was purely sectional; and when the Council is reduced to this, it is time that it become a body looking after its trade interests only and the Government set up forthwith a Pharmacy Board and annul the whole of the Pharmacy Acts, 1852, 1868 and 1908. If these gentlemen aim at this, then their policy should be placed clearly before the electors. In such a case, there is no necessity for the Pharmaceutical Society to continue in its present form. The electors have given their answer, and it is only fair to suggest that reasonable efforts to introduce new blood on the Council should be tried in future on sound lines and not by accentuating a class interest only. The utter folly of a non-member (to which we called attention last year) telling members how they should vote cannot be over-emphasised. Chemists are entitled to be considered as reasonable beings. Any change at this particular time would have been disastrous, but this never weighed for one moment with the challengers; indeed, from what they said in their appeal for support it would have been surmised they were not even aware that vital questions were dependent on the issue: the only point with them was, "Are you examined in elementary physics? If so, you are competent to fit spectacles." Surely, pharmacy on such terms is reduced to a farce, and a separation from side-lines becomes a clamant issue. The percentage return of votes varied little from previous years, the valid papers returned numbering 5,393. Though one might be dissatisfied with the total, the fact must be faced that polling a scattered electorate is a difficult and expensive method of getting an expression of opinion. The clear issue was the statesmanlike appeal by the retiring members, and this, fortunately for pharmacy, won through. We have always been in favour of new men when they are tempered with a consistent service for the craft they seek to represent. The seat vacated by Mr. White went to Mr. F. G. Wells, a young man with a chance before him of making good. The 2,348 votes accorded him should stimulate him in his new chance of service. On the old members' polling there is not much to be said; they stood together and did well. Just over 500 votes separated the first from the sixth. The lesson to be learned from this election, as from the last, is that men who desire to serve their craft should give up the notion of catching votes and give themselves a little more to true service.

The Mercury Market

MARKET conditions in mercury for several weeks past have remained stereotyped, with spot quotations varying between £22 7s. 6d. and £22 10s. per bottle, less the usual discount, which tends to emphasise the arbitrary control maintained by the Spanish and Italian producers, with their f.o.b. terms pegged at £21 10s. per bottle. It is, of course, inconceivable that importers or dealers in the larger consuming countries would care to commit themselves at this inflated figure, beyond the regular calls made upon them, as they are doubtless fully aware of the considerable accumulation of supplies in Spain and Italy. Some idea of this accumulation was conveyed in the exclusive information given in the *C. & D.* (March 31, pp. 421-22). We have no reason to modify the approximate figures then specified relating to the world's production, at the rate of between 136,000 to 138,000 bottles per annum, against a full normal world's consumption of 96,000 to 100,000 bottles, despite the criticism and doubts aroused by interested parties writing in the German Press. Certain remarks made by a writer in the "Frankfurter Zeitung" and reproduced in the "Chemische Industrie," April 28, to the effect that the Almaden mines had been shaping their programme for an output of at least 50,000 bottles covering the period from January 1, 1927, to September 30, 1928, or for one year and nine months. This is certainly not in line with the facts which have leaked out from reliable quarters on this side, closely in touch with the remarkable development of the output already experienced in the Spanish industry in the past year. On the other hand, the German comments made in respect to the restraining effect on consumption in Germany and elsewhere is quite consistent with the opinion expressed by trade authorities on this side, while the trade demand is now more strictly confined to actual needs. Incidental to the covering purchases made by dealers in March, against short sales, first-hand sellers quickly seized the opportunity to force an advance of about £2 a bottle, and there has since been no yielding in their attitude. It remains to be seen, however, whether the summer period will pass without something happening to alter the aspect of the market, as consumption is undoubtedly being interfered with. The fact has also to be noted that stocks in bond in America since the end of October (when they were 3,572 bottles) increased by January 31 to 6,507 bottles, which is nearly four times the amount existing a year previous. Statistical developments in this country are very interesting since February. There was then a decrease in the imports for the two months of 2,826 bottles compared with the same months in 1927, while incomings were only 792 bottles, but during March, and particularly April, there was a big increase, making the total for the four months 6,622 bottles, as will be seen from the following figures:—

Bottles	1926	1927	1928
U.K. imports (April)	804	898	3,225
U.K. imports (Jan.-April)	5,028	6,455	6,622
U.K. re-exports (April)	205	52	158
U.K. re-exports (Jan.-April)	942	283	1,636

It will be seen that the aggregate imports for the four months is in excess of last year, but the net imports, allowing for the re-exports of 1,636 bottles, were slightly under 5,000 bottles, against 6,172 bottles for the same period in the previous year. It is, however, premature to assume that the situation in the matter of supplies has been eased by the heavy arrivals of 3,225 bottles accounted for last month. This apparently includes the 2,000 bottles which were landed at Liverpool, representing the second portion of a special order for 10,000 bottles for a certain use of an unusual character, particulars of which have not been allowed to transpire. Shipments against this order are being spread over this year, so that imports

figures will be swelled to that extent, but, of course, this mercury is already sold to consumers and does not come on the market, although we understand that a part of the metal thus used will eventually be recovered. At any rate, spot value has been in no way affected by the heavy April imports due to the circumstances referred to. Advices from Italy relating to the Societa Monte Amiata, the chief producer in that country, have been closely scrutinised, while the financial publication, the "Agenzia Economica" of Rome, stated that that producer had experienced a falling off in its sales recently for export, which was partly attributed to over-production in Spain and the relaxed demand from London. It was added that these influences were only ephemeral, but that a reliable forecast as to their effect on the company's financial position was impossible at this juncture. The fact has to be noted that there has been a considerable reduction in the Italian exports in the past year against 1926, judging from the figures published for the eleven months to the end of November last, the total being well below that for 1925. The returns which are given below are the more interesting and significant as indicating deterioration in the Italian position in view of the estimated much larger production (say, well upwards of 60,000 bottles) per annum:—

Italian exports for eleven months in quintals (quintal=220.5 lb.)

Destination	1925	1926	1927
Austria	236	69	48
France	840	1,025	761
Germany	2,536	3,479	2,613
Great Britain	1,776	1,546	1,591
Japan	1,425	2,329	1,197
Hong-Kong	1,220	1,154	690
Brit. India and Ceylon	842	924	507
United States	3,367	4,091	2,796
Other countries	1,158	1,694	2,156
Totals	13,400	16,311	12,359

There has, therefore, been a shrinkage in the eleven months to November 30 last of 3,952 quintals, against 1925, the equivalent of which represents 11,646 bottles, which speaks for itself, having regard to the accumulation of stocks and the check to the outlet at an unduly inflated price.

Business Changes

MR. R. A. McDANIEL, Ph.C., Bungay, has opened a branch at 73 High Street, Leiston.

A BUSINESS will be opened at 48 Hanover Street, Stranraer, as the Galloway Drug Stores.

MR. A. G. STREET, chemist and druggist, is opening a new business, The Palladium Pharmacy, Waterloo Road, South Shore, Blackpool.

MR. W. D. GELLATLY has acquired the business of Mr. T. Dunlop, Albert Road, Pollokshields, Glasgow, and will retain his shop in Paisley as a branch.

SMITH, GARD & CO., LTD., chemists, 238-240 Bennetts Castle Lane, Chadwell Heath, Essex, have opened a branch at 7 Market Parade, Great Gearies, Barkingside.

MR. MAX BROOMBERG, chemist and druggist, The Tolbooth Pharmacy, 168 Canongate, will shortly open a branch pharmacy, optical and photographic dépôt at 94 South Clerk Street, Edinburgh.

SELLES DISPENSING CHEMISTS (proprietor, Mr. V. H. Iddon, chemist and druggist), 309 Holderness Road, Hull, have taken over the business of the late Mr. A. J. Wharton, chemist and druggist, 153 Hessle Road, Hull.

CHEMISTS' EXHIBITION.—We learn that the fine chemicals displayed by H. R. Napp, Ltd., were entirely the products of E. Merck, Darmstadt.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Eighty-Seventh Annual Meeting, London, May 16

AN audience of average size assembled at midday on Wednesday in the chilly and, as it happened, draughty lecture-theatre of the Pharmaceutical Society. The historic box for receiving last-minute votes was duly in its place; and the only innovation, if memory serves, was the extension of one end of the chairman's table so that it touched the wall. The president (Mr. Herbert Skinner) took the chair punctually at the announced time, with the vice-president (Mr. L. Moreton Parry), the treasurer (Mr. Guthrie), Mrs. Freke and Mr. F. P. Sargeant on his right, and the Society's solicitor (Mr. W. H. Quarrell), the secretary and registrar (Mr. H. N. Linstead), and the resident secretary in Scotland (Mr. J. Rutherford Hill) on his left. The members of the Council present, in addition to those at the table, were (so far as could be ascertained) Messrs. H. Antcliffe, W. J. Beardsley, F. E. Bilson, T. Hardy, F. G. Hines, J. Humphrey, A. H. Jenkin, J. Keall, T. Marns, A. R. Melhuish, E. S. Peck, P. F. Rowsell, E. H. Simmons and E. White. The audience included Mr. Alban Atkin, Mr. Richard Bremridge, Mr. Frank Browne, Mr. J. H. Cuff, Mr. H. Deane, Mr. J. P. Ellerington, Mr. H. Wippell Gadd, Mr. J. P. Gilmour, Professor H. G. Greenish, Mr. Alfred Higgs, Mr. J. Stuart Hills, Mr. J. Milner, Mr. Langford Moore, Mr. R. R. Pratt, Mr. E. L. Slade, Mr. G. Whitfield and Mr. J. R. Wretts.

The fact that the president spoke with only the aid of a modicum of notes gave an actuality to his speech not always evident in past annual orations from the same table. Mr. Skinner, while claiming credit for the Council in that its members, who worked very hard, had been able to inspire confidence and thus increase the Society's membership, did not raise his colleagues to the rank of demigods. Steadily, in his clear and measured delivery, he advanced from paragraph to paragraph of the Council's report, commenting briefly on each of its salient features. A tribute to Sir William Glyn-Jones and the late Editor of *THE CHEMIST AND DRUGGIST*, two close friends often differing, he said, in their points of view, was a noteworthy feature of the speech; and another salient passage was the expression of regret that the Government Committee's report on the Pharmacy Acts was not available for comment. Mr. Skinner sat down at 12.25, and the ensuing discussion, a report of which will be found in its place, was contributed to by five members of the Society. The meeting was adjourned at 1.15 for the counting of votes. The voting went, in the main, according to the expectation of the prophets; but one elector, it appeared, had provided a shock for the scrutineers by blacking out the names of all the fourteen candidates.

President's Speech

The secretary having read the notice convening the meeting,

The PRESIDENT, in moving the adoption of the report, said that its presentation gave him an opportunity, which he was glad to have, of making a few comments on the work that had been done during the year. He had not the slightest doubt that most of those present had been through the report to see what the Council had been doing. But there were one or two points to which he wished to call special attention. They would notice that the Society was still progressing, and he thought it reflected great credit on the Council that they were able to inspire confidence in those who qualified and so increase the membership of the Society. For an organisation that could increase its members as the Society had done was creditable to everybody concerned, and he could not help thanking the secretaries of branches for the great and

important part they had played in bringing about the increased membership. During the past year £5,000 had been added to the building fund, and £2,210 to the accumulated funds. The expenditure had increased somewhat, but he reminded the members that the treasurer, Mr. Guthrie, was a Scotsman, who always kept a keen eye on this matter and saw that it was well within the proper limits. The increase in membership during the year was 624, and the total membership on December 31, 1927, was 13,566. He knew they would all be as proud of the progress made as he was. (Hear, hear.) The next item he wished to refer to came under the heading of examination, regulation and education, and the points he would deal with were all embodied in the column headed "Examinations."

EDUCATIONAL CHANGES

As all the details were given in the report, it would be futile for him to spend any time with them, but he pointed out that the old Major examination as they had known it for so many years would expire in July, and they had already made progress in the examination for the pharmaceutical chemist, which, however, did not actually come within the report for 1927. At the same time, as a consequence of the action taken during the year, they had had to prepare for the future. The Council had studied during the whole of the past year very carefully how best to provide for the transfer of the old method to the new, and had found it necessary to make several changes. They had been able to consolidate all the scholarships so that these could be taken at one and the same time instead of being scattered as they formerly were.

The Council had had to pay great attention to the inspection of schools, because they knew that the key to success in any examination was the training which candidates received in the schools. He had also to thank the inspectors of the London University for dealing with the inspection of schools from their point of view, and he was very pleased to say that the University and the Society were working quite harmoniously together, and, he thought, to the advantage of both parties. With regard to the examinations generally, it had been a great privilege to him to spend quite a long time on them, and he was very pleased with the way in which they had been conducted during the past year. With reference to the School Science Committee and the Pharmacological Laboratories, there was one thing the Council felt was very necessary in pharmacy. One of the consequences that was bound to arise from the war was that a great deal of research work would fall into decay, and it was very, very difficult to revive the interest in such work after so great a catastrophe. He was pleased to say, however, that more and more research work was being done, and a keener interest manifested in the activities of the Society in the Pharmacological Laboratories. The research work now being carried out was undoubtedly reacting to the good and the credit of the Society. The Council had taken one further step, but that would come well within this year, and he could assure members that from the publication of the "Quarterly Journal of Pharmacy and Allied Sciences" they hoped that the process of stimulating research which had been practised so keenly during the year under review would continue during the present year. Considerable attention had been paid in the Pharmacological Laboratories to the vitamin-testing department, and he thought the paragraph in the report dealing with that subject would give members adequate information of the progress which had been made in that direction. With regard to the evening meetings, both in London and in Scotland, some excellent lectures had been given and really good work done. The Council had also been steadily improving the Journal, and would continue to do their best to give the members a really good official organ.

Turning to branch organisation, the president said members of the Council had spent a good deal of time travelling up and down the country in addition to the

lectures which had been given. He assured members that a good deal of hard work had been done by the Council in this connection. Indeed, some people who criticised the Council so keenly had no idea of the hours of work which members of that body put in. Alluding to the Conference at Brighton, Mr. Skinner described it as highly successful, but said that this was not surprising in view of the resort's nearness to London and the fact that so many members of the Society were Londoners. Thanks, at any rate, were due to the chairman and the secretary of the local committee at Brighton for the able manner in which they carried out their duties and gave pleasure to so many who made the Conference a change from their regular routine in other cities.

BRITISH PHARMACOPÆIA

Referring to the British Pharmacopœia, the president said that a White Paper on the subject would be published within the next few days, and this debarred him from saying anything at that meeting. The essence of the report would be issued, and members would agree with him when they saw it that the Council had done well. The main thing the League of Ex-Service Pharmacists had accomplished during the year was to keep going the fight in the House of Commons, and this led him to refer to the Parliamentary Fund. With regard to this, the only criticism he had heard worthy of the name was that members did not know what the Council were doing with the Fund. It was quite obvious that the Council could not tell them exactly what was being done with the money, but it should be sufficient if he (the president) gave the assurance that they had been spending considerable time in connection with the matter and would make good. The Council were indebted to the activities of the League in relation to the Fund, and were consolidating the whole movement for the purpose of protecting the interests of pharmacists in the House of Commons. One point he wished to raise in regard to the Benevolent Fund. In his opinion this languished at times because of the lack of regular yearly subscriptions from members. While he did not belittle for one moment the contributions made at the various dinners and other social functions, he would emphasise that it would be an advantage if members, when paying their subscriptions, would give a small donation, or one according to their ability, to the Orphan Fund and also the Benevolent Fund.

"On the question of the Departmental Committee no report has yet been issued," the president proceeded. "I am sorry for that, because I was looking forward to a bit of a fight—and I love a fight. At all events, it has not come yet, whether it means a fight or not; but I am still looking forward, and I hope we shall be able to consolidate the position of pharmacy."

OBITUARY

"I have to regret that in some respects the year 1927 was a disastrous one for pharmacy. It was disastrous owing to the fact that we lost two men who had done in their respective spheres a great deal for pharmacy. I refer first to Sir William Glyn-Jones. You must have known him and his work for pharmacy, and those who knew him best will feel, and continue to feel, his loss the keenest. The other was the late Editor of THE CHEMIST AND DRUGGIST, Mr. Woolley. Strange to say, they died within three months of each other, and they were the closest friends in spite of opposite points of view on many occasions. Both did good work for pharmacy." The president made fitting reference to the deaths of Dr. G. Balfour Marshall, Mr. F. C. Clayton, and others who had rendered useful service to pharmacy, and concluded by paying a warm tribute to the work of the secretary of the Society, Mr. H. N. Linstead, and Mr. Rutherford Hill, chief in Edinburgh, together with their staffs.

The VICE-PRESIDENT seconded the resolution.

Discussion

Mr. A. HIGGS (Kingston-on-Thames) said he was sorry to see such a small gathering, but he supposed it might be taken as an indication that the majority of the members were satisfied with the work of the Council during the past year. He congratulated the president on the

work he had done during his visit to America as well as in this country. He also expressed appreciation of the substantial increase in the membership, and recalled that years ago 10,000 would have been regarded as the high-water mark. Referring to the increase of seventy-eight in the number of company superintendents, he commented on the growing tendency for men who had failed to qualify to form private companies. He believed that there were 80 per cent. of failures in the Final examination. He did not know whether the reason for this was that the examinations were more stringent, or whether the young men of the time had not got sufficient ability to pass them; he did not agree that more organic chemistry should be added to the syllabus as lately proposed. For young men who failed to qualify were apt to join the ranks of unqualified proprietors of drug stores, and he noticed that 1,532 visits had been paid to such establishments during the year by the Society's inspectors. Mr. Higgs mentioned that he was celebrating fifty years in business as a pharmacist, and he approved of the idea that when a member paid his annual subscription he should also remember the needs of the Benevolent Fund. He hoped that the trade would come forward and give generous help towards the effort that was to be made to perpetuate the memory of Sir William Glyn-Jones. As for Mr. Woolley, he echoed the sentiments of the president, adding that the late Editor of THE CHEMIST AND DRUGGIST always took the side of the trade in all things pharmaceutical.

Mr. J. H. ROBINSON (Liverpool) expressed regret at the impending retirement from the Council of Mr. E. White, who, he declared, had done a tremendous amount of work for pharmacy. He hoped that something would be done to show appreciation of Mr. White's services. In congratulating the retiring members of the Council on the circular they had issued, he criticised them for advocating the claims of a new candidate. This he regarded as hardly "playing the game." He hoped, in concluding a humorous speech, that the president would still continue in office for years to come.

Mr. J. MILNER (Greenwich) said it was not exactly satisfactory that there should be upwards of 7,000 registered chemists who did not think it worth while or their duty to support the Society. That was a big proportion, and he thought there was something wrong when there were still nearly a third of the registered chemists of the country who did not support the Society. The latter would only attain perfection when at least 95 per cent. of chemists were also members. He also regretted that Mr. White was severing his connection with the Council, for they all realised what excellent work he had done. In referring to the number of small limited companies that were coming into existence, he suggested that something should be done to keep such establishments under stricter supervision, for many of them could not afford to employ a qualified man.

Mr. W. A. WHATMOUGH (London) said he hoped when the storm came after the present calm that retailers of poisons to the community would get fair play, and that the Council would see that members' interests were protected. As for Government departments, their only interest seemed to be to make additional burdens for chemists to bear, and there was a real danger that when new regulations came about the chemists would suffer, and suffer seriously, as they had done in the past, without any compensatory advantages. With reference to the scientific side of the Society's work, he appreciated the good work that was being done in the pharmacological laboratories, but he suggested that the Council was neglecting the real side of pharmacy, namely, the putting together of medicines. He suggested that Professor Greenish and the wholesale houses should be encouraged to publish more on their work and show that the real side of pharmacy was not dead. He also complained that he had gone to the library on many occasions only to discover that some book of reference was out on loan. In his opinion, certain books should always be available for reference, and should not be loaned out.

Mr. H. DEANE (Long Melford) criticised the time at which the annual meeting was held, and said his view was that three o'clock was a much more convenient time.

The PRESIDENT, replying to the points raised, said that when the meeting was held at three o'clock the

attendance was worse than at the twelve o'clock meeting. Personally he thought the day was wrong, but that could not be altered, as the Charter said it must be on a Wednesday. He would not advise changing the time from twelve o'clock. With regard to Mr. Higgs's mention of failures at examinations, the figures he had given were wrong. The percentage passed had been most consistent ever since he (the president) had known the Society. In fact, it was so consistent that people read more into it than they should do. In his opinion the failures were due to inadequate training. There was not the slightest doubt that the whole of the difficulty lay in faulty training. He recalled that when he was down at Exeter he was not a partisan of the matriculation standard, but he had seen the most deplorable things from the point of view of educated pharmacists in writing ordinary English. It seemed to him that they would still continue until some years were passed to suffer from a Preliminary far and away too low for the standard that was required. This was a drawback that he wished they could overcome quicker than they were doing. The question of limited liability companies was bound to arise in the storm that might follow the present calm. He did not know, but the Council was quite ready to tackle the problem and to do it thoroughly. He congratulated Mr. Higgs on having achieved fifty years in pharmacy, and remarked that if every pharmacist was as keen they would be able to satisfy Mr. Milner and get 100 per cent. in the Society. He hoped that the annual subscriptions to the Benevolent Fund would increase. He was glad Mr. White's resignation had been mentioned, as it gave him an opportunity of referring to it. Mr. White had been "father" of the Council for five or six years, and had given a tremendous amount of time and service to the Society. He had started occupying official positions almost as soon as he was qualified, and had continued right up to the present time. It was Mr. White's wish to retire now for reasons of health more than anything else, and he (the president) wished to pay a tribute to him, for every pharmacist who cared for pharmacy deeply appreciated all the time and service Mr. White had given. (Applause.) With regard to membership, he believed that in the South-Eastern they were 25 per cent. members, and he hoped Mr. Milner would get to work there. Mr. Whatmough was evidently anxious for the stimulation of interest in research work in pharmacy, and the Council were striving with that object in view. With regard to works of reference, he had found the same difficulty as Mr. Whatmough; and he suggested that any member who failed to find a book that he wanted should make a note of the fact, and the librarian could then notify the committee, who would be able to deal with the matter. They could then see if they could provide a book that would not be allowed to go out. (Applause.)

SCRUTINEERS

On the motion of the PRESIDENT, several persons were appointed to act as scrutineers to examine the ballot papers in the Council election.

AUDITORS

It was proposed, seconded and adopted that the following be appointed auditors:—Messrs. C. A. Hill, J. S. Hills, T. E. Lescher, E. J. Millard, E. A. Umney.

REGISTERS

The PRESIDENT called attention to the fact that the Registers were available for inspection.

The meeting was then adjourned for the purpose of counting the votes.

Council Meeting

The usual meeting of the Council was held at 16 Bloomsbury Square prior to the annual meeting of the Society, the president in the chair. Certain elections and restorations to membership took place, and the Council then went into committee for the purpose of arranging the business of the annual meeting.

Council Election Result

The counting of the votes was finished shortly after six o'clock, and the president, taking the chair, called on Mr. F. Bascombe (chairman of the scrutineers) to announce the result of the election. The number of voting papers sent out was 12,417; the number returned was 5,407; 62 were disallowed, and 15 were too late, leaving 5,393 effective papers. The votes were given as follows:—

Peck, E. S.	...	...	...	...	4,075
Skinner, H.	...	...	...	...	4,014
Mars, T.	3,784
Antcliffe, H.	3,741
Parry, L. M.	3,686
Beardsley, W. J.	3,406
Wells, F. G.	2,348
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McNeal, J. F.	1,845
Barrs, P.	1,827
Atkin, J. A. A.	1,693
Peacock, W. J.	1,588
Lees, W. D.	1,487
Robinson, R.	1,406
Slade, E. L.	...	...	...	...	1,222

The president read the names of the members of Council as newly constituted, and moved a vote of thanks to the scrutineers. Mr. Bascombe, in acknowledging the vote, called attention to the comparatively small number of voting papers returned.

Branch Meetings

Isle of Wight.—The annual general meeting of the Isle of Wight Branch was held at Newport on April 23, Mr. E. W. Pollard presiding. Discussion took place on the testing of National Health Insurance prescriptions. Mr. F. W. Beken referred to the National Health Insurance statistics, and urged the necessity of special care. There was a lengthy discussion, the general opinion being that, compared with the mainland, the position was satisfactory. All the chemists in the Island had had samples taken for analysis, but there were only two cases which had been reported upon unfavourably. Mr. E. W. Pollard was re-elected chairman of the branch, and Mr. W. Ramage (Newport) secretary.

London, S.E.—Under the chairmanship of Dr. A. Annis, medical officer of health for Greenwich, a joint meeting of doctors and chemists was held under the auspices of the S.E. Metropolitan Branch at Greenwich, on April 19. There was a good attendance. The chairman was supported on the platform by Dr. A. Salter, M.P., Mr. H. A. Linstead (secretary of the Pharmaceutical Society), Mr. A. R. Melhuish (member of the Council), and Mr. G. A. Tocher (London Pharmaceutical Committee). Dr. J. Stanley White, Ph.C., delivered a lecture on *Some Recent Aspects of Biological Therapy*. Two films were shown depicting processes in the preparation of serums and vaccines. A vote of thanks to Dr. White was proposed by Dr. A. Salter. Mr. W. T. Tucker, chairman of the Branch, acknowledged the indebtedness of the Branch to Dr. Annis for taking the chair.—A lecture was given recently to the junior section of the S.E. Metropolitan Branch, by Mr. D. S. Dickinson, Ph.C., of St. Mary's Hospital, on *Ointments and Suppositories*. After a classification of ointments, Mr. Dickinson gave some practical hints on manipulation in special cases, and dealt with the B.P. ointments, making certain recommendations. Detailed practical information was given for the dispensing of suppositories, special mention being made of the necessity of allowing for the specific gravity of certain medicaments. Questions were asked. The lecture was followed by a meeting at which Mr. R. Box was elected *Sports Secretary*.

London (W.).—The annual meeting of the West Metropolitan Branch was held at 192 Oxford Street, W.1, on May 2, Mr. C. G. Bonner (chairman) presiding. It was reported that the Branch numbered 620 members, and that the balance sheet showed a surplus of £68. Mr. D. T. Jones was elected to fill a vacancy on the committee caused by the retirement of Mr. William Browne.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

ENGLAND AND WALES

Local Reports

Burnley.—During 1927 245,496 prescriptions were issued to insured persons at a cost of £8,745, against 223,433 scripts costing £8,055 in 1926. The average cost per script decreased from 8.7d. to 8.6d. Scripts issued in 1925 were 216,522; in 1924, 205,920; and in 1923, 175,016.

Cheshire.—At a meeting of the Insurance Committee at Crewe on April 18 the clerk reported correspondence with reference to the pharmaceutical service in Nantwich, wherein the chemists had requested that they should be relieved of keeping open their shops on Wednesday and Sunday evenings during the summer, as the amount of Insurance dispensing was so small as not to justify their shops being open. He had submitted the matter to the medical practitioners of the district, and they were satisfied that no undue inconvenience would result to insured persons. The Committee approved. The following resolution was sent to the Ministry of Health:—"That in view of the large number of road accidents that occur in Cheshire to persons resident elsewhere, this committee is of opinion that it is unfair that the Cheshire Medical Fund should be burdened by charges for the emergency treatment in respect of them, which should in equity be charged to the funds of the areas of the patients' places of origin."

Denbighshire.—The quarterly meeting of the Insurance Committee was held at Wrexham on April 19, when a letter was read from the Welsh Board of Health inviting the Committee to submit a scheme whereby dressings required by persons resident in colliery and industrial parts of the county which are supplied by the Insurance practitioner in the surgery would be obtained from the chemists in bulk instead of being obtained by the insured person on production of the ordinary prescription form. It was decided that the Panel Committee and Pharmaceutical Committee be invited to appoint representatives to confer with the representatives appointed by the Insurance Committee with a view to formulating a suitable scheme for this purpose. The clerk reported that during the quarter ended March 31, 1928, seven tests were made and six of the samples were found to be satisfactory.

Isle of Wight.—At a meeting of the Insurance Committee, on April 13, the Pharmaceutical Service Subcommittee reported that during the last quarter four samples of mixture were taken for analysis, and one sample of boric lint. The analysts' reports in two cases were not satisfactory. In one case the chemist concerned attended the committee meeting, and his explanation was accepted. In the other case a representative from the firm of chemists concerned attended, and that firm had been warned. Samples for analysis had now been taken from all the insurance chemists in the Island, and out of 44 test prescriptions ten were not satisfactory. With reference to the recommendation of the Insurance Committee to the Minister of Health that £2 should be withheld by the Minister in the case of a firm of chemists who had failed on two occasions to comply with the terms of service with regard to the supply of cotton wool, the committee had received a further communication from the Minister stating that he was still of the opinion that a warning was a sufficient penalty. He had addressed a letter to the firm of chemists accordingly. With reference to the question of the supply of graduated medicine bottles by chemists, the Committee did not make any recommendation, the Minister of Health having advised that there was no provision in the terms of service for chemists under which they could be required to supply bottles bearing graduation marks. The provisional net amount available in the Medical Practitioners' Fund for the quarter ended March 31 was £2,900 12s. 6d. They recommended quarterly payments as follow:—Doctors, £3,109 17s. 4d.; chemists, £949 0s. 5d. Other payments included final settlement with the doctors for 1927, £583; final settlement with the doctors for 1926, £213; final settlement with chemists for 1927, £146 6s. 11d.

Plymouth.—The question of errors made by doctors in prescriptions was raised at a meeting of the Insurance Committee on April 27 by a member, who said it seemed to him that there was too much reference by chemists to doctors in cases in which errors had been made in prescriptions by the latter. He was not suggesting that the doctors were trying to take advantage, but he did think that errors should not happen so frequently, and pointed out that if the chemist made a mistake he had no one to go to. Dr. H. B. Palmer protested against what he termed the blackmailing of doctors on insufficient evidence by the previous speaker. He said the number of slips which doctors made—and such slips occurred in every business—was very small in proportion to the millions of prescriptions issued, and he was surprised that the member should get up in the presence of the Press and attempt to suggest to insured persons that they were being treated by a lot of callous doctors. Dr. Palmer then left the meeting. Dr. F. G. Bushnell said a mountain was being made out of a molehill, and the slips which occurred were purely clerical errors and the sort of things that all human beings must occasionally be guilty of. It was pointed out that the chemist was really bound to refer to the doctor, as under no circumstances could the former alter the prescription. It was stated that two or three serious cases had been brought before the Committee, over which they felt quite concerned. The discussion then dropped.

Portsmouth.—The Finance Subcommittee reported that they were now in a position to effect a settlement with doctors and chemists for 1927. The chemists would be paid in full for the first seven months, and for the last five months (August-December) would be repaid ingredient costs in full and 69.7 per cent. of the dispensing fees. The amount available for the doctors for 1927 was £1,156 in final settlement, and a further sum of £558 was available in respect of 1926. Payments to the chemists for January of £892 5s. 4d. were approved, and it was reported that the Ministry had agreed to the payment of a sum not exceeding £50 in respect of the administration expenses of the Pharmaceutical Committee for the year 1928.

SCOTLAND

Dumfries-shire.—At a meeting of the Insurance Committee, on April 25, the minutes of the Executive Subcommittee meeting of January 18 bore that the clerk had communicated with a medical practitioner as to the prescribing of a proprietary preparation, and that he had received a reply from the practitioner, from which it appeared that the proprietary preparation had been ordered by him on the instructions of one of the district medical officers of the Scottish Board of Health, and that, following receipt of such reply, he had communicated with the Scottish Board of Health, who had avoided expressing an opinion as to whether the proprietary medicine in question should continue to be prescribed and whether a satisfactory substitute was not available. The meeting was unanimously of opinion that the attitude of the Board of Health in regard to the prescription of proprietary medicines by panel practitioners generally, and the prescription in this case of such a medicine on the instruction or advice of one of their own officers, was inconsistent and unsatisfactory. The clerk was instructed to inform the Board that, in the absence of their stating that they disapproved of the proprietary medicine having been prescribed in this case, and have taken such action as renders it unlikely that such an incident will recur, the Committee and the representatives of the Panel Committee are definitely of opinion that no good purpose would be served by their continuing their endeavour to control the prescribing of proprietary medicines in the area in future. With regard to the question of the prescribing of proprietary medicines by panel practitioners, the clerk submitted a letter from the Board of Health in answer to a communication of his following the joint meeting of the Subcommittee and the representatives of the Panel Committee. The Board intimated that they could not usefully add to their previous communication on the subject. After consideration the meeting adhered to the opinion which they had previously expressed.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, The Chemist & Druggist," 42 Cannon Street, London, E.C.4."

Report on the April Analytical Exercise

(Concluded from C. & D., May 12, p. 603.)

A remarkable feature of the analysis was the failure by so many students to detect the bromide. It was the almost uniform practice of students in testing for acidic radicals to add silver nitrate to a nitric-acid solution, and, having obtained a nearly white precipitate, to add excess of ammonia, whereupon the precipitate almost instantly disappeared. This, without further evidence, was usually taken as proving the presence of a chloride, and the possibility of the precipitate being due to a bromide was apparently not considered—a consequence of the widely held, but nevertheless erroneous impression that silver bromide is not readily dissolved by ammonia. The actual fact is that when silver bromide is freshly precipitated and ammonia solution of the concentration of the ordinary bench reagent is added to it, it dissolves with a degree of ease and rapidity not very different from the corresponding behaviour of silver chloride. A few experiments made with very dilute solutions of a bromide would readily convince students regarding this matter.

PRIZES

The first prize for the best analysis has been awarded to :—

H. W. Blick, 71 Laxey Road, Rotton Park, Birmingham.

The second prize has been awarded to :—

A. A. B. Morgan, 1 Church Street, Darlaston, Staffs.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book or books they select.

MARKS AWARDED FOR ANALYSES

H. W. Blick (1st Prize)		Rambler	78
A. A. B. Morgan (2nd Prize)	96	The Raven	73
		Cymro Anarferol	70
Dulce	94	Non-Nomen	69
D. R. G. M.	82	Murdock	65
Scotia	80	Dum Spiro Spero	46
Spes	80	Tiny Boy	42
Magnum Opus...	79	Sun	39
		Fairbank	38

TO CORRESPONDENTS

A. A. B. MORGAN.—Absence of chloride should have been established, as well as the presence of bromide. Note that it is possible to have a colourless substance which yields a coloured borax bead.

DULCE.—You describe testing the filtrate from the ammonium chloride and ammonia precipitate with ferric chloride until all had been precipitated as ferric phosphate; but this filtrate should not have contained any phosphoric acid radical. See the general remarks.

SCOTIA.—On adding chlorine water to a solution of the powder in dilute sulphuric acid, a distinct brownish coloration due to bromine was produced.

SPES.—The phosphate precipitate formed on adding sodium acetate and acetic acid contained the whole of the phosphoric acid radical, and the filtrate was thus phosphate-free.

MAGNUM OPUS.—The precipitate which you attributed to the presence of magnesium was probably due to traces of zinc which had escaped precipitation at the proper stage.

THE RAVEN.—The evolution of ammonia when the powder was heated with sodium hydroxide should not have escaped your observation, since the proportion liberated was considerable.

CYMRW ANARFEROL.—It is difficult to understand why you did not obtain any precipitate on adding ammonium chloride and ammonia, unless you failed to add the latter reagent in excess and the mixture remained acid.

MURDOCK.—Ammonium molybdate should have given you a positive reaction for phosphate: either the reagent or your mode of applying it would appear to require attention. We recommend you not to employ the crude and not altogether danger-free practice of tasting unknown substances. We have not been able to read either your name or your address, and we are in doubt about your *nom de plume*. Why not use block capitals, or write very distinctly?

DUM SPIRO SPERO.—Note that it is futile to try to ascertain whether iron was originally present as ferrous or as ferric salt by applying tests to a solution that has been treated with hydrogen sulphide or to a precipitate produced by that reagent.

TINY BOY.—The brown colour produced on heating the powder with sulphuric acid was due to bromine, but having observed this colour effect you left it unaccounted for. Your tests for arsenate proved pretty conclusively that none was present.

SUN AND FAIRBANK.—Study the general remarks above and the replies to other correspondents.

THE ANALYTICAL TOURNAMENT

The analysis reported upon in the foregoing is the final one in the Tournament series for the present session, and it is now possible to sum up the results of the six exercises and to announce the names of the winners of the special prizes offered in November last. The competition, as on former occasions, aroused a healthy interest amongst students, and the standard of the work done was for the most part high, although some of the commoner causes of error, to which we call frequent attention, continued to present themselves as opportunity arose, and found due reflection in the reduction of the marks awarded. Altogether 82 students took part in the competition, in which the only disappointing feature was the large falling off in the number of those who sent in reports on the later exercises as the session progressed. Various promising competitors who might have distinguished themselves before the close abandoned the contest at an early stage; but, on the other hand, it was gratifying to note the perseverance to the end of numerous students who could have little expectation of attaining the tournament prize standard.

Turning to the numerical results, it is remarkable to find that there is almost a tie for first place, and that there is an actual tie for third place. "Rambler" and "Magnum Opus" have obtained the excellent aggregates of 552 and 551 marks respectively. The difference is exceedingly small, but, as the greatest possible care was exercised in awarding marks for the individual analyses, we do not hesitate to award the first prize, of books to the value of £3 3s., with a certificate of honour, to C. A. Naylor, The Dingle, Mellor Road, Marple Bridge, whose separate marks are 97, 96, 93, 98, 90 and 78; while the second prize, of books to the value of £2 2s., with a certificate of honour, falls to C. Minshall, Ashcroft, Llewelyn Road, Colwyn Bay, with 91, 97, 93, 97, 94 and 79 as separate marks.

For third place "Laxey" and "Non-Nomen" have tied with 528 marks each. In the circumstances, we have decided to make an award of books to the value of 15s., with a certificate of honour, to each of these competitors—H. W. Blick, 71 Laxey Road, Rotton Park, Birmingham; and H. Prestwick, 356 St. George's Road, Preston, Lancashire.

We have also decided to make a special award of a copy of "The Art of Dispensing" to "Dulce"—Eileen M. Ferguson, 52 Moorfield Road, Pendleton, Manchester—who, as runner-up, with an aggregate of 524 marks, has almost attained tournament prize figure.

We desire to thank those other students whose participation contributed to the success of the tournament. We shall be glad if the prize-winners will communicate at once with the Publisher, naming the books which they desire to have as prizes.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, May 17

BUSINESS in pharmaceutical chemicals, although not active, is fairly satisfactory, with orders mostly for small quantities. There are practically no price alterations. Both citric and tartaric acids remain quiet. Crude drugs have been quiet pending the auctions. Cod-liver oil is cheaper following on improved fishing, and Japanese camphor slabs have eased. Ipecacuanha is offered at easier rates and carnauba wax is rather lower. Manchurian hemp seed is much dearer, while Chinese galls are higher for shipment. Antimony has rallied sharply. Among the essential oils the recent firmer tendencies continue, and citronella, which has been rather low, is dearer. Orange oils show further advances, and cedarleaf is firmer, while American peppermint is easier. Among industrial chemicals a fair amount of business continues to be done at mostly previous prices. Acetic acid has been in rather better demand; cream of tartar is slow of sale. Potassium products are quiet. Carbolic acid continues firm, with fair export inquiry; cresylic acid is also firm. In the fixed oils group, quieter markets are reported, the few price changes including an advance in castor oil, and some grades of palm are firmer; linseed has fluctuated, closing about level on the week. Turpentine has sagged owing to better progress of crop operations. Hankow wood is dearer. Other changes include a sharp advance in shellac, with a brisk speculative business on the terminal market.

Higher	Firmer	Easier	Lower
Calumba	Albumen	Camphor	Cod-liver oil
Castor oil (Eng.)	Antimony	(Jp. ref. slabs)	Ipecacuanha
Citronella oils	Carbolic acid	Peppermint oil	Resin
Galls (China)	Cedarleaf oil	(Amer.)	Turpentine
Ginger	Geranium oils	Rubber	Wax
(W. African)	Hen yolk		(Carnauba)
Hemp seed	Palm oils		
(Manch.)	Rape oil		
Naphthas, solvent			
Orange oils			
Paraffin scale			
Wood oil			
(Hankow)			
	Steadier		
	Phenazone		

Cablegram

BERGEN, May 16.—The catch of cod since the opening of the season amounts to 57,200,000, against 57,800,000 at the corresponding period of last year, and the yield of steam-refined non-freezing oil is 45,821 hectolitres, against 65,275 hectolitres at the same period last year. Market is lower at 165s. per barrel, c.i.f., for finest new Lofoten steam-refined non-freezing oil.

Crude Drugs, etc.

AGAR-AGAR.—Japan No. 1 is quiet at 3s. 7d. per lb. on the spot, and to arrive 3s. 4d. c.i.f. is quoted.

ALOES.—Curacao in cases is firm with 72s. 6d. per cwt. c.i.f. quoted for t.q.

ANTIMONY.—There was a sharp rally in the case of Chinese metal due to much stronger cable advices from China, and c.i.f. terms show a material recovery, ranging from about £42 to £43 c.i.f. There has been more inquiry on the spot, and holders are now quoting £43 to £44 delivered ex wharf.

BELLADONNA ROOT.—For Continental 0.49 per cent. test 62s. 6d. per cwt. c.i.f. is quoted.

BLOOD ROOT is scarce at 1s. 4d. per lb. c.i.f. for new crop.

CADMUM is very steady with a moderately active demand for Australian on the basis of 2s. to 2s. 1d. per lb. It is reported that a certain amount of the cadmium produced in Canada may be partly disposed of to American consumers, so that there is less fear of the London market being much affected by offers of Canadian.

CALUMBA is dearer, with 30s. per cwt. asked for natural sorts and washed ditto 35s. upwards.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs are quoted on the spot at 2s. 4d. per lb.; on May-June shipment at 2s. 3d. c.i.f.

CASSIA LIGNEA is steady. Whole selected in cases is quoted at 55s., and in bales at 40s. per cwt. on the spot; for shipment in bales 28s. 6d. c.i.f. Broken 29s. on the spot in bales; for shipment in bales 23s. 6d. c.i.f.

CLOVES.—Zanzibar are firm with sales on the spot at 8d. to 8½d. per lb. To arrive, March-April shipment is 7½d. and May-July shipment 8½d. per lb. c.i.f. delivered weight. The landings during the week ended May 12 were nil, and the deliveries 712, leaving a stock of 12,420 bales, against 13,385 in 1927 and 17,892 in 1926. The landings of Zanzibar during the period January 1 to May 12, 1928, were 8,921 bales, against 13,423 for 1927, and the deliveries 6,030, against 7,641 in 1927.

COCOA BUTTER.—Prime English C.F.R. is 1s. 8½d. per lb., and prime English 1s. 8½d., in not less than one-ton lots.

COD LIVER-OIL.—The following report has been received from our Norwegian correspondent. :

BERGEN, May 14.—The codfishery at Finnmarken continues with a rather good catch. The total output of all the Norwegian codfisheries compared with that of previous years is as follows:—

To	Catch of cod.	Yield of steam refined c.l.o.	Livers for crude oils.
May 7, 1928 ..	55,300,000	44,399 hectol.	8,350 hectol.
.., 9, 1927 ..	57,200,000	64,815 "	6,313 "
.., 8, 1926 ..	65,300,000	93,638 "	12,109 "
.., 9, 1925 ..	45,400,000	77,740 "	8,685 "
.., 10, 1924 ..	48,300,000	87,576 "	13,688 "

The market remains quiet, with buyers anticipating the development of the fishing.

CORN PRODUCTS, ETC.—Guaranteed water-white glucose (corn syrup) is 23s. per cwt. delivery to end of June ex store, London. Dutch maize starch powder (cornflour) is 17s. on the spot. American is 17s. per cwt., ex store, London. Pearl starch is 16s. 6d. delivery to end of June, ex store, London. Dutch maize starch crystals is 23s. on the spot, and American is 21s. ex store, London, delivery to end of June. Dutch dextrin is quoted at 22s. 6d. to 25s. 6d. per cwt. on the spot as to quality. American canary is 21s. 4½d. per cwt. White is 21s. 1½d., ex store, London delivery to end of June. Dutch farina is unchanged at 17s. 6d. per cwt. on the spot, and for shipment 16s. 6d. per cwt. f.o.b. is quoted.

CROTON OIL is quoted at 3s. 10d. per lb. on the spot.

GALLS.—Chinese plum-shaped are dearer at 58s. per cwt. c.i.f., also ordinary shape at 58s. c.i.f.

GINGER.—West African is firm with spot sellers at 55s. per cwt.; sales to arrive include May-June shipment at 51s. 6d. c.i.f., sellers quoting 52s. 6d.

HEN YOLK is firm. Dried Chinese on the spot is 1s. 10d., and for May-July shipment 1s. 11d. per lb. c.i.f. has been paid. Prime Chinese albumen has been sold at 2s. 4½d. spot, and May-June shipment is 2s. 3d. per lb. c.i.f.

LOVAGE.—To arrive 280s. per cwt. c.i.f. is quoted.

MAGNESIUM steady, full rates being maintained by British makers on the basis of 4s. per lb. for small ingots and sticks, and terms for powder vary from about 5s. 6d. to 6s. 6d. per lb., according to quality and quantity.

MENTHOL is inactive at 15s. 6d. per lb. on the spot, and for May-June shipment sellers quote 15s. 1½d. per lb. c.i.f.

MERCURY is unchanged with a strictly hand-to-mouth demand and spot quotations are £22 7s. 6d. to £22 10s., less the customary discount. F.o.b. terms from either Spain or Italy still remain at £21 10s. per bottle. Some further business was reported to have been done for Japan, but China is quiet and a normal demand is still coming forward from India. The tone in New York is

reported firmer, since the recent cheap parcels offering were disposed of and holders there are asking about \$125 per bottle duty paid.

PEPPER has been firm but quiet. Fair black Singapore is 1s. 6½d. per lb. on the spot; March-May and April-June shipment 1s. 6d. value c.i.f. Lampong is 1s. 6d. spot; May-July shipment has been sold at 1s. 5½d. to 1s. 5½d.; and August-October at 1s. 3½d. to 1s. 4½d. c.i.f. Telli-cherry is 1s. 7d. spot, and May-June shipment 17s. c.i.f. Allepy is 1s. 6½d. spot. White Muntok is firm at 2s. 3½d. spot. To arrive, March-May and April-June shipment has been sold at 2s. 3½d. c.i.f., and August-October at 2s. 1½d. to 2s. 1½d. c.i.f.

PIMENTO is firm at 8½d. per lb. on the spot, and for May-June shipment 80s. per cwt. c.i.f. is quoted.

RUBBER is ½d. easier on the week, and although business has been quiet, the market remains fully steady at the lower level. The market is at present hesitating, pending the receipt of Singapore shipments for the first half of the month. This information is expected to arrive at any moment, and should the figures not be greater than those of last month, a higher market will result. It will be recollected that shipments last month were exceptionally small. Stocks continue to decline, and last week arrivals totalled 1,642 tons, whilst deliveries were 2,820 tons, showing a further decline of 1,178 tons; the London stock now stands at 50,837 tons, against 68,041 tons at the corresponding period last year. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and May 8½d.; June, 8½d.; July/September, 9d.; October/December, 9½d. per lb.

SEEDS.—The market remains exceedingly quiet and prices in most articles continue firm. ANISE.—Spanish 50s., Levant 34s., Russian 28s. CANARY remains firm: Mazagan is 15s. 6d. and Saffi 15s. on the spot. CUMIN.—Maltese is 56s. and Morocco 52s. 6d. on the spot, and 43s. c.i.f. is quoted for June-July shipment new crop. CORIANDER.—Morocco is 46s. 6d. spot and new crop is offered at 21s. per cwt. c.i.f. for June-July shipment, and Russian is 35s. spot. FENUGREEK.—Morocco is 15s. 6d. to 16s. spot. HEMP is scarce and much dearer. Manchurian is 18s. 6d. to 20s. spot. LINSEED.—Mazagan is 21s. on the spot and new crop is offered at 19s. 6d. c.i.f., July-August shipment. MUSTARD.—English is 27s. on the spot.

SHELLAC.—The spot market for usual standard TN Orange, quality has advanced a further 10s. per cwt. to 210s.; fine orange is 225s. to 300s.; pure button, 235s.; and AC cakey, 200s. To arrive, TN for April-May shipment has been sold at 182s. 6d. to 190s., and May-June at 183s. to 190s. c.i.f. The sales for delivery comprise May at 191s. to 198s.; August, 180s. to 189s. to 195s.; and October, 187s. to 197s. to 194s.

WAX (VEGETABLE).—Carnauba is cheaper: fatty grey is 125s. per cwt. on the spot, 124s. c.i.f. afloat and 123s. c.i.f. for shipment; chalky is 128s. spot; afloat is not offered, and 123s. c.i.f. is quoted for shipment. Japanese is quiet at 83s. 6d. per cwt. on the spot, and at 78s. 9d. c.i.f. for May-June shipment.

Essential Oils

FIRMER tendencies have been apparent for some weeks now in spite of the dearth of large orders, and on the whole prices are well maintained if not advanced. Citronella is dearer both forward and on the spot, although fairly large stocks are held on this side. The position of orange oils is critical and very attractive for holders of supplies. Cedarleaf and geranium oils are firmer, while American peppermint is easier.

ANISE (STAR).—"Red Ship" is a shade higher for shipment owing to the movement on the exchange, although the actual price in China has not been altered. On the spot the value is about 2s. 5d. per lb.

BERGAMOT is firm at 24s. to 24s. 6d. per lb. on the spot and 23s. 9d. to 24s. 9d. c.i.f. for 37 to 38 per cent l.a.

CASSIA is unchanged and interest is diminishing, though the genuine 80 to 85 per cent. c.a. is still scarce and worth 7s. per lb. on the spot.

CEDARLEAF is firmer and quoted at 5s. 6d. in drums and 6s. in cases, per lb. c.i.f. The spot price is about 6d. per lb. more in each case for genuine.

CEDARWOOD is steady at 1s. 1d. per lb. c.i.f. and 1s. 2d. on the spot in drums. In cases it is 1s. 3d. per lb. on the spot.

CITRONELLA is dearer. Ceylon has advanced to 1s. 8½d. per lb. c.i.f., and it is reported that stocks at the source are

small. Some has been sold on the spot at 1s. od. per lb., though higher prices are probable. A sharp advance has taken place in Java, which is quoted at 2s. 2½d. for July-December shipment and 2s. 4d. for 1929. On the spot about 2s. 1d. per lb. is ruling. The exports from Java during January were 104,000 kilos. and 98,000 kilos. in February, figures which compare favourably with those of previous years.

COPAIBA is quoted at 2s. 9d. per lb. on the spot.

GERANIUM.—Bourbon is firmer at 17s. per lb. either c.i.f. or on the spot. Algerian is also firmer at 13s. 6d. per lb. c.i.f. and 14s. on the spot.

GINGERGRASS is unchanged at 8s. 1½d. per lb. on the spot and 7s. 9d. c.i.f.

JUNIPER BERRY.—B.P. is quoted at 6s. 3d. per lb. on the spot, while genuine Hungarian is 8s. 3d. per lb.

LAVENDER.—A report from France indicates that although the demand for weeks has been slow, a revival of interest is apparent. Stocks are said to be limited. The price is very steady at 15s. to 15s. 6d. per lb. for 38 to 40 per cent. l.a.

LEMON is quoted at 10s. 6d. to 10s. 9d. c.i.f. and about 11s. per lb. on the spot, although odd parcels may be had at slightly less.

MANDARIN is quoted forward at prices which vary considerably. The general spot value is 35s. per lb.

NUTMEG is about 7s. per lb. on the spot.

ORANGE.—Producers in California have fixed their price at 27s. 6d. per lb. for the remainder of the supplies available. This action has not yet had time to affect the other oils, but should mean a marked increase in Sicilian. The quotations range from 27s. to 35s. per lb. c.i.f., and the latter price is reported to have been paid. It is, however, very difficult to buy at all, and in some cases inquiries have been ignored. The spot price varies according to seller, but is round about 30s. per lb. in most directions. West Indian is quoted at 27s. 6d. per lb. on the spot.

PALMAROSA is steady and firm at 11s. 6d. per lb. c.i.f., while spot supplies are a shade less.

PATCHOULI is unchanged but on the easy side at 26s. per lb. c.i.f. and 27s. per lb. on the spot.

PEPPERMINT.—American natural tin oil is very dull and easier at 13s. 6d. per lb. c.i.f. and 14s. on the spot. Redistilled is quoted at 15s. 9d. per lb. Japanese dementhosilised is on the easy side at 5s. 10½d. on the spot and 5s. 9d. per lb. c.i.f. for Kobayashi and/or Suzuki. English (genuine) is quoted at 82s. 6d. per lb. and 80s. in cwt. lots.

PETITGRAIN.—Paraguay is worth about 7s. per lb. on the spot.

ROSEWOOD (BOIS DE ROSE).—Brazilian is steady at 7s. per lb. on the spot. Cayenne is firmer at 8s. 9d. per lb.

SASSAFRAS.—Natural American is steady at 4s. 6d. per lb. on the spot and 3s. 9d. per lb. c.i.f.

SPEARMINT is steady at 18s. 6d. c.i.f. and in more demand. The spot supplies are still limited and 19s. per lb. is being asked. Lower forward prices can be had for other brands.

VETIVERT.—Bourbon is firm at 22s. to 22s. 6d. per lb. in tins. Original bottles are worth 23s. 6d. per lb.

WORMSEED (CHENOPODIUM) is unchanged at 13s. 6d. c.i.f. and 14s. per lb. on the spot.

The following arrivals have taken place from the countries indicated during the period May 9 to May 15 (inclusive): Almond (Fr.), 5 es.; bergamot (Fr.) 1 es., (U.S.) 2 es.; bergamot, lemon and orange (It.), 548 es.; cinnamon (Fr.) 1 es.; citronella (Fr.), 2 es.; copaiba and sassafras (U.S.), 5 es.; geranium (U.S.) 3 dm., (Alg.) 2 dm.; iris (Fr.), 4 es.; jasmin (Fr.), 1 pkg.; juniper berry (Ger.), 2 dm.; lavender (Fr.), 3 dm.; lemon (Ger.), 10 es.; lemon and orange (It.), 2 es.; orange (Sp.), 4 es.; origanum (Cyp.), 4 dm.; palmarosa (Br. Ind.), 7 pts.; peppermint (Jp.) 20 es., (U.S.) 5 es., (Ger.) 25 es., (Lat.) 40 es.; pine (Aust.), 3 es.; sassafras (U.S.), 10 es.; spearmint (U.S.), 3 dm.; undescribed (Fr.), 24 es.

Pharmaceutical Chemicals, etc.

THERE is no special feature to comment upon. The market as a whole is steady and business, while not in any way really active, is fairly satisfactory, although mostly for small quantities.

ACETANILIDE continues to be quoted at about 1s. 5½d. to 1s. 6d. per lb. for B.P. crystals and powder; market quiet.

ASPIRIN is unchanged, with the market steady and an average business being done: reliable brands from 2s. 5d. to 2s. 7d. per lb., as to quantity.

BENZOIC ACID (B.P.) shows no change, with the market steady: quantities, ex works, 2s. 0½d. to 2s. 1d. per lb.; small spot parcels, 2s. 2d. per lb.

BRONIDES.—Business has been only moderate and prices are unchanged throughout; dealers: ammonium, 1s. 11½d.; potassium, B.P. crystals, 1s. 7½d.; granular, 1s. 7d. to 1s. 7½d.; sodium, P.B., 1s. 10½d. per lb. for quantities, in cases. British makers' list prices are unchanged:

ammonium, from 2s.; potassium, from 1s. 8*2*d. to 1s. 9*2*d.; sodium, B.P., 1s. 11d. to 2s. per lb., in cwt. lots.

CATINOL LACTATE is quoted on a quiet market at about 1s. 1*1*d. to 1s. 2d. per lb., for quantities.

CHLORAL HYDRATE is steady, with a moderate business passing: duty-paid crystals from 3s. 1d. to 3s. 2d. per lb. for quantities, and 3s. 3d. for small parcels.

CITRIC ACID (B.P. crystals) continues generally quiet, but prices are steady at 1s. 11d. per lb., less 5 per cent., for fair quantities of foreign on spot; ton lots might be a fraction cheaper.

CREOSOTE (B.P.) is irregular, with some holders asking down to 1s. 8d. to 1s. 8*2*d. per lb. for quantities, while others are not selling under the latter figure up to 1s. 9d.

CREOSOTE CARBONATE continues quiet at about 5s. 10d. to 6s. per lb.

GUAIACOL CARBONATE is quiet and unchanged at 4s. 8d. to 4s. 9d. per lb. on the spot.

HEXAMINE.—There is no further change, but competition continues very keen for a limited business: small crystals, 1s. 11d. to 2s.; fine powder, 2s. 1d. to 2s. 2d.; free-running crystals, 2s. to 2s. 2d. per lb., as to quantity.

HYDROQUINONE is steadily maintained, with business satisfactory: half-ton lots at 3s. 8d. up to 4s. 9d. for 14-lb. parcels.

LACTIC ACID (B.P.) is unchanged, with spot moving at 1s. 11d. to 2s. per lb.; perhaps just a fraction cheaper forward.

METHYL SALICYLATE (B.P.) has continued in fair demand again at about 1s. 4*2*d. to 1s. 5d. per lb.

METHYL SULPHONAL remains slow of sale: dealers offer spot at about 9s. to 9s. 4d. per lb.

PARALDEHYDE is steady at 1s. 1d. to 1s. 2d. per lb. for quantities in carboys; small lots in bottles, 1s. 3d. per lb.

PARAFORMALDEHYDE shows no further change at 1s. 8d. to 1s. 10d. per lb., as to quantity for 100 per cent.

PHENACETIN.—Most business of any size is being done at bottom prices: quoted from 2s. 5d. to 2s. 7d. per lb.

PHENAZONE seems a little steadier, although there may still be one or two holders willing to shade the market quotations of 3s. 10d. to 4s. per lb., as to quantity.

PHENOLPHTHALEIN is unchanged at the controlled prices of 5s. 11d. to 6s. 1*2*d. per lb., as to quantity.

POTASSIUM PERMANGANATE (B.P.) remains quiet: quoted at about 5d. per lb., in drums; small parcels, 5*2*d.

RESORCIN is steady at about 3s. to 3s. 2d. per lb.; business moderate.

SALICYLIC ACID (B.P.) continues to be offered down to 1s. 2d. per lb. for large quantities; ordinary lots of about a cwt. or two at 1s. 2*2*d.; small parcels, 1s. 3d.

SALOL is unchanged at controlled rates: cwts., 2s. 4*2*d.; 56 lbs., 2s. 5d.; small parcels, 2s. 6d. per lb.

SODIUM BENZOATE (B.P.) is well maintained at last week's figures, with fair inquiry: spot, foreign powder, 1s. 7*2*d. per lb., for quantities.

SODIUM DIETHYLBARBITURATE remains slow of sale: dealers quote at about 7s. 10d. per lb.

SODIUM SALICYLATE (B.P.) is meeting with a limited demand on a steady market: crystals, from 1s. 8d.; powder, from 1s. 6*2*d. to 1s. 7d. per lb., for quantities in cases.

SULPHONAL remains dull, with spot prices unchanged at about 6s. 6d. per lb.

TANNIC ACID.—B.P. *tevis* is steady, with some business moving: quantities from 2s. 10d.; small parcels, 3s. per lb.

TARTARIC ACID has shown no improvement in demand again, but the market quotation is steady at 1s. 4*2*d. to 1s. 4*2*d. per lb., less 5 per cent., spot, for foreign.

TERPIN HYDRATE has been dull at from 1s. 5d. to 1s. 6d. per lb.

THYMOL remains slow of sale, with dealers offering synthetic fine white at about 9s. 6d. per lb. for cwt. lots.

VANILLIN is unsteady, and there does not appear to be much business about: 100 per cent. from cloves is quoted at about 15s. per lb.

Industrial Chemicals, etc.

London, May 13.

A VERY fair amount of business continues in this section, with the general tone steady. Cornish arsenic remains dull. Cream of tartar is steady, but in no way active. Potash products remain quiet.

ACETIC ACID has been in rather better call, with dealers' prices maintained: 80 per cent. technical, £36 15s.; 80 per cent. pure, £37 per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demijohns; glacial, in barrels, £56 per ton, ex store.

ACETONE remains firm: B.G.S., in drums, £63 to £67 per ton, in drums, ex store.

ALUM is meeting with occasional business: lump, £8 5s. to £8 7s. 6d. per ton, in casks, ex store; slightly cheaper forward for quantities.

AMMONIA (ANHYDROUS) meets with a steady demand in small lots, with dealers' prices very competitive: 99.95 per cent., in loaned cylinders, carriage paid, 9d. to 11d. per lb.; slightly less for contracts.

AMMONIUM CHLORIDE has shown more life and dealers' prices for grey galvanising are steady at about £21 10s. per ton, in casks, ex store; less for contracts.

ARSENIC.—The demand has been chiefly confined to small lots, but has proved sufficient to maintain prices at £17 to £17 5s. per ton for 99 per cent. white Cornish, f.o.r. mines. Mexican high-grade is £17 7s. 6d., c.i.f. Liverpool.

BARIUM CHLORIDE remains weak, with only a limited demand: spot, 98 to 100 per cent. prime white crystals, £7 12s. 6d. per ton, in casks, ex store; slightly less forward in quantities.

BLEACHING POWDER (35 to 37 per cent. available chlorine) is steady on a competitive market: large contracts from £6 12s. 6d. and small parcels from £6 15s. to £7 per ton.

COPPER SULPHATE.—There has been fairly well sustained activity in the export trade and the market is inclined to be firmer owing to a renewed advance in the price of rough bar copper. Export f.o.b. terms for casks range from about £25 15s. to £26 5s., less 5 per cent., and terms for home use vary from £26 5s. well upward. U.K. exports for April were 6,446 tons, making for the four months 26,196 tons, against 19,103 tons for the same period last year.

CREAM OF TARTAR has been a slow market, but the tone is very steady on quotations of 97s. 6d. to 100s. per cwt., less 2*1* per cent. for foreign powder, according to quantity.

FORMALDEHYDE has been in fair demand, with dealers' prices for 40 per cent. by volume at £37 per ton, in casks, ex store; slightly less for quantities to come forward.

FORMIC ACID has been in average demand, with prices very steady: 85 per cent., in carboys, £46 5s. to £46 12s. 6d. per ton, ex store.

ISOPROPYL ALCOHOL continues in fair call in small quantities, with prices about steady for reliable 99 to 100 per cent. from 10s. 9d. to 11s. 3d. per gallon, in drums.

LEAD PRODUCTS.—Lead acetate is in fair demand: brown, £40; white, £42 per ton, in casks, ex store; red lead, imported, about £30 per ton, c.i.f. London; white lead, imported and home makes, dry, £36 to £42; ground in oil, £44 to £50 per ton, carriage paid in U.K. Convention prices continue steady and unchanged.

OXALIC ACID has been quieter, but dealers' prices are steady: ex wharf, £29 17s. 6d. to £30 per ton.

POTASSIUM CARBONATE remains quiet: 90 to 92 per cent., £25; 96 to 98 per cent., £26 per ton, in casks, ex store; slightly cheaper for contracts.

POTASSIUM CHLORATE continues to be called for in limited quantities, with quantities to come forward from 2*7*d. to 3d. per lb.; spot parcels, 3*2*d. to 3*4*d. per lb., ex store.

POTASSIUM PERMANGANATE remains very slow of sale: dealers quote quantities in two-cwt. drums from 4*2*d. per lb., ex store.

POTASSIUM PRUSSIATE is unchanged at 6*2*d. per lb. for yellow in quantities, in casks; small parcels from 7d.

POTASH CAUSTIC.—Convention prices continue unchanged; business is not of much account: spot, less than one ton, £36 15s.; one to five tons, £33 5s.; five to fifteen tons, £32 15s., in drums, ex store; 30s. per ton less c.i.f. in all cases.

SALTCAKE remains slow of sale, with bulk quantities for home trade at about £2 15s. to £2 17s. 6d. per ton, delivered.

SODIUM ACETATE is bright, with prices fully £21 per ton, in casks, ex store.

SODIUM CHLORATE continues in limited request in small lots: quantities to come forward, 2*2*d. to 2*7*d. per lb.; spot, 3*4*d. to 3*4*d., ex store.

SODIUM HYPOSULPHITE.—There is no change in dealers' prices; business moderate: pea crystals, in one-cwt. kegs, £15 to £15 2s. 6d.; commercial quality, £9 10s. per ton, in casks, ex store. British makers' price for pea crystals to home consumers on contract, £15 per ton, carriage paid to buyer's station.

SODIUM NITRATE is dull and easy for quantities as quoted: 95 per cent., £11 2s. 6d.; 96 per cent., refined, £11 7s. 6d. per ton, f.o.r. docks, London.

SODIUM NITRITE is quiet: 100 per cent. basis, £19 17s. 6d. per ton and 20s. 6d. per cwt. docks, London.

SODIUM PRUSSIATE has been quiet, but prices are steady, with quantities, in casks, at 4*2*d. per lb.; small parcels, 5d.

SODIUM SULPHIDE is dull: dealers quote 60 to 62 per cent. solid at £9 10s.; broken, £10 10s. per ton, in drums, ex wharf.

SULPHUR is firm but unchanged, being at £5 12s. 6d. to £5 17s. 6d. for American crude: Sicilian flowers £12 7s. 6d., refined ground £11, and roll £9 15s., all c.i.f. to arrive.

COAL-TAR PRODUCTS, ETC.—There is no change of importance to record, the only movement being a slightly better tone in earbolic acid crystals. ANILINE OIL shows no change on the

quotation of 8d. per lb., packages extra, carriage paid. ANILINE SALT continues steady at 8d. per lb., packages extra, carriage paid. BETANAPHTHOL is fairly active, with prices for quantities from 10d. per lb., carriage paid. CARBOLIC ACID crystal are slightly firmer, with the export price for five-ton lots steady at 6½d. per lb., f.o.b., in drums with over-casks. Home trade prices are unchanged on the basis of 7d. to 7½d. per lb. CREOSOTE OIL continues unchanged, with not very much business: ex works, 7½d.; f.o.b., 8d. per gallon, in bulk quantities. CRESYLIC ACID is well maintained and business is being done for the next six to twelve months at to-day's prices as previously announced. NAPHTHALENE is unsteady, with business quiet: flakes and balls, £16 15s. per ton, in cases, ex wharf. METHYL ALCOHOL continues in fair demand, with spot lots at about £45 per ton, in drums, ex store; cheaper for quantities to come forward. PYRIDINE remains nominal on a lifeless market: 5s. 6d. to 6s. gallon, f.o.b. TOLUOL is steady and in some demand: commercial 90's 1s. 6d. to 1s. 7d.; pure, about 1s. 10d. per gallon, at works. XYLOL is still dull: pure, about 1s. 10d.; commercial, about 1s. 6d. per gallon, at works. PITCH.—The market has been lifeless, with the price nominal at about 60s. per ton, f.o.b. East Coast.

Fixed Oils, etc.

QUIETER markets are reported, but prices in most cases are steadily maintained. Rape oil is firm. Palm oils are steady but quieter. Linseed oil is about level on the week and quiet. American turpentine is cheaper, and castor is dearer. Acid oils have been quiet, and prices are unchanged: coconut and/or palm kernel, 37s. 9d.; groundnut, 32s.; soya, 26s. spot. CASTOR.—Prices of English show an advance, with the market steady but quiet: pharmaceutical, 52s.; first pressings, 47s. 6d.; second pressings, 44s. 6d. per cwt., in barrels, in not less than one-ton lots. COCONUT has been quiet; market steady; deodorised, spot, 48s.; Ceylon, 41s. 9d. c.i.f.; Cochin, 52s. 6d. c.i.f. COTTON remains quiet but steady: deodorised, 44s.; common edible, 43s.; soap-making, 40s.; crude, 36s. 6d. spot. GROUNDNUT continues quiet and unchanged: deodorised, spot, 47s. 6d.; crude Oriental, 41s. c.i.f. PALM KERNEL is also quiet and unchanged: deodorised, spot, 45s.; crude, 40s. 6d. spot. PALM.—Prices are being maintained, and one or two kinds show a further slight appreciation in value; business has quietened off a little, closing steady: Lagos, 35s. 9d.; softs, 35s. 3d.; mediums, 35s. 3d.; hards, 35s. 3d.; bleached, 38s. spot. RAPÉ is firm at dearer rates: refined, 40s.; crude, 44s. spot. SOYA is steady and business moderate: deodorised, 40s.; crude, 36s. spot. LINSEED (raw, naked).—Prices were inclined to advance, but have now moved back and close about level on the week, with the market quiet: on spot, 31s. 3d.; May, 30s. 6d.; June, 30s. 7½d.; June-August, 30s. 7d.; September-December, 31s. 7½d.; January-April, 32s. 3d.; Boiled oil, spot, 34s. 6d. Hull, on spot, 29s. 9d.; May, 29s. 9d.; June-August, 30s. 1½d.; September-December, 31s. TURPENTINE.—There has been some further sagging under a generally dull demand on this side, the market having been affected by weak American cable advices, which is attributed to the better progress of crop operations. London spot closed on Wednesday evening at 30s. 9d.; June, 40s.; July-December, 42s. 3d. per cwt. Deliveries for last week, however, made a good showing at 2,897 barrels, making a total since January 1 of 40,192 barrels, which compares with 53,376 barrels the same period last year. Stocks were returned at 23,943 barrels, against 24,235 barrels at the same date last year. RESIN.—Prices moved further in buyers' favour owing to reported liberal receipts in America, and consequently increasing stocks there. C.i.f. terms are as follows for American: B/G 16s. 1½d. to 16s. 6d., E 17s. 4½d., F/G 17s. 9d. to 17s. 10½d., H/I 18s. to 18s. 1½d., K/M 18s. 4½d., W.G. 21s. 6d., and W.W. quality 22s. 9d. Terms ex-wharf command 9d. per cwt. more. WOOD.—Hankow, in barrels, on spot is dearer at 78s. per cwt. OLIVE.—French (B.P.) 8s. 6d., edible 7s. per gallon; edible Italian, 8s. 6d. per gallon, ex wharf.

LUBRICATING, MINERAL, BURNING OILS, ETC.—The chief alteration is a considerable advance in solvent naphtha prices, with the market firm and fairly active. Other products are unchanged. BENZOL.—Prices are well maintained on an active market: crude 65's, 11½d.; standard motor, 1s. 4d.; pure, from 1s. 6d. per gallon, ex works, in tank wagons. FUEL OIL is unchanged and steady: 950 gravity, £3 12s. 6d.; 90 gravity, £4 7s. 6d. per ton, ex tank; slightly cheaper onward. PARAFFIN WAX and SCALE.—Wax is about steady at from 23d. to 4½d. per lb., according to melting point, in bags; scale is again dearer, with the shipment quotation about £21 10s. per ton, c.i.f. U.K. PARAFFIN OILS continue steady and unchanged: American standard white, 10½d.; water-white, 11½d. per gallon, barrels free; Roumanian kerosene oil, 5d. to 5½d. ex tank, 5½d. buyer's barrels filled

free, and 9½d. per gallon, barrels free; American water-white kerosene, 5½d. to 6d., 6d. and 9½d. per gallon, respectively. WHITE OILS are unchanged: special No. 1, £24 2s. 6d.; No. 1, £23 5s.; No. 3 half-white, £20 10s.; No. 4 half-white, £19 10s. per ton, drums and barrels free, ex wharf. SOLVENT NAPHTHAS show a considerable advance and close firm: 90 to 160, 1s. 2d. to 1s. 3d.; heavy 90 to 190, 11d. to 1s. per gallon, naked at works. PETROLEUM JELLIES are steady: white to snow-white, £40 5s. to £52; amber and yellow, £19 to £24; dark stiff green, £12 per ton, barrels free, ex wharf. LUBRICATING OILS.—The spot market continues steady, with a slightly better demand: on spot, pales, £9 10s. to £22; reds, £11 to £21 10s.; dark cylinders, £11 15s. to £28; filtered cylinders, £18 to £27 5s. per ton, less 2½ per cent., ex wharf, London; slightly less for tank lots. SOLUBLE OILS and CUTTING COMPOUNDS, £20 to £28 per ton, net. No. 1 RUSSIAN OIL is offering on spot at £14 per ton, less 2½ per cent., barrels free, ex wharf.

London Drug Auctions

Commercial Sale Rooms,
Mincing Lane, E.C.3.
May 17.

A SMALLER supply of drugs than usual offered to-day, but the demand showed no improvement on recent auctions, and the bulk passed the hammer unsold, buying being chiefly hand to mouth. Cape aloe was only offered in small quantity, and Curaçao was held for higher prices. Sumatra benzoin is steady, while balsam tolu has an easier tendency. Buchu is steady, but inclined to be firmer. Cardamoms, where sold, were steady, but demand was small only, and for the small to medium sizes. Reboiled dragon's blood was in rather more demand at steady rates. Siam gamboge is scarce and held for previous prices. Honey continues neglected, only oddments selling; fair quantity of Siberian had been sold privately. Ipecacuanha was cheaper, particularly Minas, which was forced off without reserve. Myrrh was held for very high prices, but failed to sell. Nux vomica is more plentiful but neglected, likewise orange peel strip. Rhubarb has been selling better privately, but the auction demand was in retail. Grey Jamaica sarsaparilla hung fire, and most of the native Jamaica was "part mouldy," which detracted from its sale. Sandarac has been in better demand privately, but failed to sell in auction. Tinnevelly senna was neglected, and for beeswax there was no demand. The following table shows the quantity of goods offered and sold, the asterisk denoting private sales:—

	Offered	Sold	Offered	Sold
Aconite root (Jp.)	42 .. 0		Eucalyptus oil (cs.)	18 .. 0
Aloes—			Gambier ..	10 .. 0
Cape ..	3 .. 0		Gamboge ..	3 .. 0
Curacao ..	23 .. 0		Gingergrass oil (pots)	2 .. 0
Zanzibar ..	4 .. 0		Guaiacum ..	8 .. 4
Ammoniacum (cs.)	10 .. 0		Gum acacia ..	135 .. 0
Anise oil, star ..	10 .. 0		Gum karaya ..	40 .. 0
Annatto seed ..	22 .. 0		Gurgun oil (cs.) ..	11 .. 0
Areca ..	52 .. 0		Henna leaves ..	31 .. 0
Asafoetida ..	21 .. 0		Honey—	
Balsam tolu ..	9 .. 0		Calif. ..	10 .. 0
Bay oil ..	9 .. 0		Chilian (kg.) ..	343 .. 0
Belladonna leaves ..	9 .. 0		Guatemala ..	30 .. 0
Benzoin—			Haiti ..	10 .. 0
Palembang ..	19 .. 0		Jamaica ..	655 .. 5
Sumatra ..	104 .. 7		San Domingo ..	83 .. 3
Buchu ..	59 .. 2		Siberian ..	166 .. 98
Buckthorn juice (djhns.) ..	4 .. 0		Ukrainian ..	31 .. 0
Calabar beans ..	9 .. 0		West Indian ..	21 .. 0
Cannab. Indica—			Ipecacuanha—	
African ..	10 .. 0		Cartagena ..	6 .. 1
Bombay ..	2 .. 0		East Indian ..	4 .. 0
Capsicums ..	10 .. 0		Matto Grosso ..	17 .. 0
Cardamoms ..	127 .. 32		Minas ..	6 .. 6
Cascara sag. ..	212 .. 0		Jalap (V.C.) ..	7 .. 0
Cascarilla ..	3 .. 1		Kamala ..	10 .. 0
Cashew nuts ..	86 .. 0		Kino (Afr.) ..	8 .. 0
Cassia fistula ..	18 .. 0		Kola (Afr.) ..	12 .. 0
Castorum (lb.) ..	20 .. 0		Liquorice root ..	66 .. 0
Chaulmoogra oil (cs.) ..	4 .. 0		Myrrh ..	33 .. 0
Chiretta ..	6 .. 0		Nux vomica ..	369 .. 0
Cinchona ..	76 .. 9*		Olibanum ..	55 .. 0
Cinnamon oil ..	7 .. 0		Orange peel ..	61 .. 0
Civet (hrns.) ..	4 .. 0		Palmarosa oil (pots)	5 .. 0
Cochineal ..	5 .. 0		Papain (cs.) ..	1 .. 0
Cocillana bark ..	27 .. 0		Rhapontica root ..	75 .. 17
Coconut oil ..	6 .. 0		Rhubarb (Ch.) ..	106 .. 8
Colocynth and pulp ..	44 .. 0		Sandarac ..	18 .. 8*
Copaiba (cs.) ..	7 .. 0		Sarsaparilla—	
Cubeba ..	25 .. 0		Grey Jamaica ..	16 .. 2*
Cuscus ..	10 .. 0		Guatemala char. ..	11 .. 0
Cuttle fish bone ..	76 .. 0		Native Jam. ..	15 .. 3
Deertongue leaves ..	1 .. 1		Senna and pods—	
Dragon's blood ..	58 .. 4		Alex. ..	147 .. 18
Elemi ..	25 .. 0		Tinnevelly ..	308 .. 3
Ergot ..	13 .. 0		Sesame seed ..	11 .. 0
			Strophanthus ..	4 .. 0

	Offered	Sold		Offered	Sold
Tamarinds (Java)			Wax (bees')—		
(cs.)	2 ..	0	East Indian	38 ..	0
Tamarinds (Madras)	75 ..	0	Jamaica	16 ..	0
Tonka beans	25 ..	2*	Madagascar	85 ..	0
Turmeric	161 ..	0	Morocco	11 ..	2*
Wax (bees')—			Rangoon	17 ..	0
Calcutta (bl.)	19 ..	0	Wax, Carinauba	15 ..	0
East African	119 ..	0			

Next Drug Auction—July 26.

ALOES.—Cape was scarce, only three cases being offered; these consisted of good seconds, and a bid of 39s. per cwt. is to be submitted. Of Curaçao 23 boxes offered, part comprising good fair liver, part capey, which was bought in at from 80s. to 82s. 6d.

ANISE OIL (STAR).—Ten cases "Red Ship," each four leads (16.2 per cent.), were offered and bought in at 2s. 5d. per lb.

ARECA.—Fifty-two bags fair sound Ceylon were offered and bought in at 37s. per cwt.

BAY OIL.—A lot of nine cases Dominica (48 to 49 per cent. phenols) was bought in at 7s. per lb.

BENZOIN.—Sumatra was steady, seven cases realising from 97 15s. to £8 per cwt. for fair almond seconds; good seconds were held at from £8 2s. 6d. to £8 10s. Palembang was limited at 82s. 6d. for inferior barky, and 90s. to 97s. 6d. upwards for ordinary to fair barky thirds.

BUCIUTI was steady, two bales fair round green, slightly stalky, selling at 1s. 5d. per lb.; further lots of good green free from stalks were obtainable at this figure, and for yellowish and bronzy round 1s. 2d. was wanted. Long green ovals were limited at 1s. 3d., and bronzy and stalky ovals at from 1s. 2d. to 1s. 3d. per lb.

CALABAR BEANS.—For a lot of nine bags fair West African a bid of 3d. per lb. is to be submitted to the owner.

CANNABIS INDICA.—Of African siftings, ten bags offered and held at 3s. per lb., at which business has been done privately. Two cases fair Bombay tops were limited at 30s. per lb.

CARDAMOMS were extremely slow of sale, only 14 cases, small to medium pale Ceylon-Mysore, being disposed of at 3s. 6d. to 3s. 7d. per lb. Small at 3s. 3d., brown and split 3s. to 3s. 2d., and fair brown decorticated seed sold at 5s. 2d. Extra bold long pale Ceylon-Mysore were limited at 7s. 9d., and bold to medium pale at 5s. 9d. per lb.

CASCARA SAGRADA.—The offerings included 46 bags fair 1924 peel, for which 65s. per cwt. was the buying-in price, and 90 bags part thick coarse 1927 quill were retired at 61s. per cwt. Another lot of 76 bags fair 1922 peel was bought in at 65s.

CASCARILLA.—A single bag of sea-damaged quill sold at 1s. 9d., and for a bag of siftings 2s. was wanted.

CASHEW NUTS.—A lot of 50 cases blanched from Bombay were offered and bought in at 90s. per cwt., and another 29 cases blanched halves at from 77s. 6d. to 92s. 6d.

CASSIA FISTULA.—A parcel of seven bales fair pod part rattley, via Hodeidah and Aden, was limited at 32s. per cwt., and another lot of 11 bags from St. Lucia consisting of fair, part rattley pod was bought in at 37s.

COCHINEAL.—Two bags rosy black were bought in at 5s., and three bags silvers at 4s. 3d. per lb.

COLOCYNTH was in fair supply. Of pulped, seven bales yellowish were bought in at 1s. 8d. Several lots of Syrian apple offered and bought in, comprising good pale small to medium whole at 1s. 1d. and broken apple at 9d. 16 cases apple from Jaffa were bought in at 1s. per lb. for small to bold dullish.

CUBEBS.—Five bags fair, slightly stalky Singapore were bought in at £9 per cwt., and a further 20 bags at from £8 to £9 per cwt.

CUTTLE-FISH BONE.—The offerings included 34 cases East Indian, of which 24 cases were fair pale sorts, 7d. per lb. being the limit. Another lot of 38 cases good pale clean whole was bought in, a bid of 1s. 2d. being refused for part.

DEERTONGUE LEAVES.—A keg of London ground lying at a private warehouse sold without reserve at 32d. per lb.

DRAGON'S BLOOD was in fairly large supply and in better demand. A single case of pickings from reboiled sold at £18 2s. 6d. per cwt., and for a case of good reboiled a bid of £25 15s. per cwt. is to be submitted. From another catalogue 3 cases good reboiled sold at £25 per cwt. Ten cases thin reed were held at £12 10s. and Zanzibar drop at 27 per cwt.

ERGOT.—Five bags of fair sound Russian were catalogued, of which two bags offered and bought in at 3s. And in another instance eight bags were offered and retired.

EUCALYPTUS OIL.—Ten cases analysing (71 to 72 per cent. cineol) were limited at 1s. 10d. per lb.

GAMBIER.—Cubes of which ten bags offered were bought in at 50s. per cwt.

GAMBOGE was represented by three cases very blocky Siam pipe, which was bought in at £22 per cwt.

GUAIACUM was steady, three bags selling at 1s. 6d. per lb. for fair glassy block and 1s. for a bag of ordinary partly drossy block.

GURUNG OIL.—A lot of five cases from Bangkok was limited at 9d. per lb.

HONEY was flat, only a small proportion selling, the exception being the sale of about 40 cases Siberian at 37s. 6d. per cwt. for pale to white set, and a string of 13 tons had been sold privately for set to setting mixed colours. A few odd sales of Jamaica were made at 39s. for pale set, in barrels, and three casks biscuit had been sold privately. A bid of 50s. was refused for ten cases white set California, and a bid of 45s. was also refused for 25 cases of very fine amber variegated Jamaica liquid.

IPPECACUANHA is easier; in auction 12s. 9d. per lb. was refused for fair lean Matto Grosso, 13s. being asked. Of Minas, six bales sold without reserve at from 10s. 6d. to 10s. 7d. for ordinary grey. Of Cartagena, two bales dull grey and woody offered and bought in at 11s. 6d. per lb., and a further three bales fair plump were bought in at 12s. 6d. A small bag of good plump Cartagena offered and sold without reserve at 9s. 6d. per lb. Four bales East Indian catalogued for auction had been sold privately.

JALAP.—A lot of seven bales small sound Vera Cruz analysing 8 per cent. resin were bought in at 9d. per lb.

KOLA.—A lot of 12 bags common dull West African quarters offered and held at 5d. per lb.

LIQUORICE ROOT.—A lot of 20 bales decorticated from Smyrna was bought in at 46s. per cwt. Another lot of 20 bags thin decorticated was retired at 47s. 6d.; 26 bales lean natural from the Cape were bought in at 20s., but slightly less would buy.

MYRRH.—A new lot of 20 bags small to bold part blocky and mixed sorts from Aden were bought in at £11 per cwt. Two cases good small slightly blocky Aden sorts were bought in at £15 per cwt.

RHAPONTICA ROOT was in larger supply than usual. 17 bags Indian sold without reserve at 34d. per lb.; 14 bags Chinese were limited at 7d. and 15 bags French at 5d. per lb.

RHUBARB has been in rather better demand privately, but in auction only retail sales were made, comprising small to medium round rough High-dried, with practically all greyish fracture at 1s. 9d. per lb., subject to approval, and for a case of spongy Shensi pickings 2s. 6d. was paid. Bold flat Shensi was bought in at 3s. 6d., Canton at 2s. 6d. to 2s. 7d., and common round High-dried at 1s. 10d. per lb.

SANDARAC.—Five casks fair pale Morocco were offered and bought in at 120s. per cwt. Sales privately have been made at this price.

SARSAPARILLA.—Quiet: seven bales fair grey Jamaica offered and were held at 2s. 3d. per lb., a bid of 2s. being refused for part; a further nine bales offered, of which one had been sold privately. Five bales of native Jamaica were bought in at 2s. per lb. for mostly ordinary dullish pale red to red and yellow mixed. A further 11 bales native Jamaica offered, and three sold at 1s. 6d. per lb. for fair palish red, part mouldy. Eleven bales Guatemala character (catalogued as Honduras) were retired at 2s. to 2s. 2d. per lb.

SENNA was neglected, only three bales Timnevelly being disposed of at 34d. per lb., subject to sellers' approval for small greenish leaf. Pods were limited at from 24d. to 42d. per lb. as to quality; 17 cases Alexandrian pods had been sold privately. Prices asked ranged from 3s. to 3s. 6d. per lb. as to quality.

TAMARINDS.—A lot of 75 bales ordinary black Madras offered without reserve and bought in at 18s. per cwt.

TURMERIC was rather more freely offered. Nine bags fair Madras finger were retired at 40s. per cwt. Another lot of 60 bags similar quality offered and were held at 32s. 6d. per cwt.

WAX (BEES') was quite neglected; 16 packages Jamaica were limited at from £8 15s. to £9 per cwt. as to quality; good brown Madagascar block (23 bags) were held at £8 15s. and East African at from £7 15s. to £8 2s. 6d. White bleached Calcutta was held at £10 2s. 6d. and Syrian (38 bags) at £8 10s. per cwt.

To COMMEMORATE ESCULAPIUS.—A letter in the "Journal of the American Medical Association" of April 28 states that an astronomer of the Yerkes Observatory of Chicago University, regretting that the name of Esculapius has never been associated with any celestial object, has bestowed it on No. 1027 of a "family" of asteroids circulating between the orbit of Mars and that of Jupiter.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

The Council Election

SIR,—My colleagues unite with me in expressing to the electors our grateful thanks for the confidence they have shown in this recent election. May I assure them of our continued determination to serve them to the best of our ability?—Yours, etc.,

HERBERT SKINNER.

London, N.

SIR,—Like many others, I am wondering whether in placing my votes I am supporting a candidate who is actively engaged in retailing American proprietary packed goods in preference to British ones. These lines never did, nor ever will, be of help to the British pharmacist, and it is simply presuming on our mentality for a candidate to ask for support when at the same time he is helping to build up a formidable array of specialities which at some time or other may easily overwhelm our trade. Of course, the candidate who is steering clear of this kind of trade will only be too glad to say so.—Truly yours,

BRITISHER (15/5).

Brandy in Prescriptions

SIR,—I am glad to see that the question of dispensing brandy or a similar spirit in mixtures has been taken up by "Frumentum." Not only do I agree with his views, but I have on several recent occasions dispensed mixtures of this description without hesitation. To refer such a prescription, probably of great urgency, back to the prescriber would mean at least a considerable delay; and what would the medical practitioner say to the chemist when told that his prescription could not be dispensed on account of illegality? I should like to have further opinions, including the views of a member of the medical profession, regarding the expediency or otherwise of refusing to dispense such a prescription. Lastly, would it be illegal to dispense a mixture containing *vinum xericum*, B.P. 1914?—Yours faithfully,

DONALD (14/5).

SIR,—It is very seldom one finds oneself at variance with the advice offered by THE CHEMIST AND DRUGGIST, but I venture to question the kindness or wisdom of your reply (p. 550) to "E. W. E. (24/4)" on the above subject. Personally, I should not have the least hesitation in dispensing the prescription named. The pharmacist's sole concern, surely, is to give his best help to the doctors in their fight against disease, and not to quibble about some paltry legal technicality while the life of the patient may be at stake.—Yours truly,

C. S. ASHTON.

Brighton.

Taking it Lying Down

SIR,—The opening sentence of your editorial article on "Taking it Lying Down" (C. & D., May 12, p. 600) is certainly a direct hit at the present generation of chemists; but there is no doubt that your criticism is well deserved, and it is quite time that somebody made an attempt to rouse us from our timid submissiveness. This quality is apparent not only in our occasional dealings with the food and drugs authorities, but also with all the other inspectors who are at liberty to walk into our premises when they choose, and in many instances have interpreted regulations according to their ideas, so that ultimately, by the acquiescence of chemists, the readings of inspectors have become an established precedent. From a general point of view it does seem that by their humility to officials the chemists have dug the pits into which they fall from time to time, but is the individual chemist deserving of all the blame? The majority of retail men are in a comparatively small way

of business; they know that they are liable to surprise visits from inspectors, and that they may be victims to one of these catch purchases, but they do their best to supply what their experience teaches them the public requires, and hope for the best that they will be fortunate enough to escape prosecution. If not acquitted when prosecuted, they consider themselves lucky if they get off with a small fine. The whole thing causes serious interruption to their proper business—it means leaving the pharmacy to attend the court, and one can well understand a man wishing to get the whole matter settled in the shortest possible time. To take it to appeal means further absence from business; very likely the chemist has nobody to leave in charge, and he certainly could not in most cases afford the cost out of his own pocket; so, although it may seem a weak thing to do, he is only too glad to pay a fine and have done with it. Now this, to my mind, is where such a representative body as the Retail Pharmacists' Union should step in.

Faithfully yours,

APPEAL (14/5).

Co-operative Societies

SIR,—Under the heading of "Westminster Wisdom" (C. & D., May 12, p. 604), reference was made concerning the supply of P.A.T.A. articles by co-operative societies. Is it an established fact that all the 1,400 co-operative societies in this country are on the stop list of the P.A.T.A. unless they agree to add to their retail prices whatever rebate is given to the customer, or to refuse to give rebate at all off P.A.T.A. articles? If this is so, it would be interesting to know how many of them have agreed to either of these conditions, and whether each branch of those societies keeps a list on view of the articles so governed.—Yours truly,

H. G. TIBBETT.

301 Wandsworth Bridge Road, S.W.6.

Subscriber's Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Malt and Oil

I wish to make it perfectly clear on behalf of the Executive of the Retail Pharmacists' Union that they have not agreed to accept the malt extract prices [reported in the C. & D., May 5, p. 555], and that the negotiations between the Malt Manufacturers' Association and the Retail Pharmacists' Union broke down entirely because of our objection to their desire to fix minimum wholesale prices whilst at the same time being unable to fix minimum retail prices.—G. A. MOLLINSON, Secretary.

Ash Determinations

When ascertaining the amount of ash obtainable from a drug or its preparations it is often difficult to get rid of the last traces of carbon, owing to slight fusion of such constituents as sodium and potassium carbonates. If a few drops of water are added and a rotating movement is imparted to the dish when cool, the cake of carbon separates into small particles.—Abel Scholar.

Sale of Oxalic Acid

I had a customer recently who informed me that he had been into three chemists' shops to purchase oxalic acid and had been refused at each one. In the first two he had seen lady assistants who told him that it was not stocked; this, of course, may be explainable. But in the third shop he entered he was attended to by a chemist who gave him the information that it was a poison on Part I of the Schedule, and he would have to be known to the vendor and sign the poison-register. He required the acid for taking lines out of drawings, and said that he could obtain a bottle of it in solution from his artist's colourman without any difficulty. There is no excuse for a qualified man not knowing which part of the Schedule any poison is on, but we have been so harassed with regulations lately that the mere mention of the word "poison" seems sufficient for some chemists to refuse sale.—Bifurcated (24/4).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

L. W. (18/4).—LIQUID SOAP SHAMPOO.—This is an emerald green liquid of attractive appearance, specific gravity 1.002, total solids 28 per cent., containing but little spirit and no perfume. Borax is present to the extent of 1.5 per cent., and soft soap to, say, 26.5 per cent.

Ward (21/4).—(1) PASTE.—The trouble with your paste is probably due to insufficient boiling. This process should be continued for about two hours, adding from time to time a little boiling water. A small quantity of alum also enhances the adhesive properties. Formulas are as follows:—

I	II
Wheaten flour ...	5iv.
Water ...	3xv.
Carbolic acid ...	mx.
Oil of clove ...	mx.
Glycerin ...	3j.
The finished product should weigh 20 oz.	
Dextrin	3 lb.
Borax	6 oz.
Glucose	5 oz.
Water	42 oz.

Dissolve the borax in the water, mix well with the dextrin and the glucose, and heat until solution takes place. Set aside for three months or more to ripen.

—(2) SHAVING CREAMS.—Formulas for the types which require no brush or water were published in the *C. & D.*, 1927, I, 788. (3) FOOT-BATH SALTS.—A characteristic formula is as follows:—

Borax ...	1 part
Sodium bicarbonate	3 parts
Sodium carbonate	5 parts

Dissolved in water, this is used for softening hard skin on the feet.

T. A. W. (24/4).—TREATMENT OF DRY ROT.—All affected wood should be cut away and burnt, otherwise the source of infection remains. For protecting the wood against dry rot either a solution of corrosive sublimate (6 oz. in 1 gal. of methylated spirit), carbolic acid or commercial creosote is used. Leaflet 113, obtainable free from the Ministry of Agriculture, Whitehall, London, S.W., will be found useful. *See also C. & D.*, 1927, II, 526.

Aconite (8/5).—FOOT BATH SALTS.—See reply to "Ward."

J. S. C. (8/5).—AMERICAN BLIGHT.—This disease, which is generally referred to as woolly aphis, was dealt with in the *C. & D. Diary*, 1928, p. 283.

J. M. (8/5).—FURNITURE PASTE.—The following recipes are from "Pharmaceutical Formulas," and could no doubt be modified to incorporate the ingredient you desire to use:—

I	II
Ceræ flav. (in shreds) 5iij.	Ceresin ... lb.iiij.
Ol. tereb. ... 3xx.	Turpentine ... Oiv.
Ol. lini ... 3ij.	Resin ... 3vj.
Rad. anchanæ ... 5iiss.	Vermilion ... 3j.

Digest the alkanet in the mixed oils and strain. Melt the wax and incorporate the oils.

H. F. (9/5).—SPECTACLE-LENS CLEANER.—The following is a formula of a preparation for preventing steaming and for cleaning spectacle lenses:—

Coconut-oil soap	100 parts
Tripoli	10 parts
Alum	5 parts
Cream of tartar	5 parts
Water	a sufficiency

Boil the soap with sufficient water to produce a jelly, then add with constant stirring the other ingredients, which should have been previously mixed and sifted. Pour, while hot, into shallow tin moulds. For cleaning, moisten the glass, apply the paste and polish with a soft rag. Other formulas were given in the *C. & D.*, January 7, p. 30.

Legal Queries

B. C. L. (24/4).—You are not entitled to discontinue your National Health Insurance dispensing during your assistant's holiday, since, under the regulations laid down, you have contracted to give the service so stipulated. If you contemplate giving up the work—even for a short period—you would have to notify the Insurance Committee. It would virtually amount to a withdrawal from the Panel, and you cannot do this without due notice. It is possible that if a discontinuance of the service is decided upon you might make some arrangement with the Insurance Committee.

W. C. S. (10/4).—The manager of a business for the executors of a deceased chemist. They have now sold the business and have given him a month's notice terminating his engagement. The purchaser will take over the business at the end of the third week of the notice, and the executors tell "W. C. S." that the purchaser has agreed to employ him during the last week and to pay his salary. Can "W. C. S." refuse to agree to this arrangement and compel the executors to pay his last week's salary? [Technically, if the executors fail to pay the last week's salary they are guilty of a breach of contract for which "W. C. S." could sue for damages; but we consider that it is exceedingly unlikely that any court would, in the circumstances, award him any damages seeing that it will be his own fault if he loses his salary for the last week.]

G. H. T. (9/5). asks whether a mistress is entitled to deduct from a domestic servant's wages a sum to cover the value of articles accidentally broken by the servant in the performance of her duties. If a domestic servant gives a month's notice and, before the month expires, her mistress moves to another house some miles away is the servant bound to finish her month's service at the new house? [Strictly speaking, a mistress has no legal right to make any deduction from wages in respect of articles broken by a servant. If the breakages are purely accidental, the servant is not liable to pay for the goods in any event and even if negligence can be proved, then the mistress's proper remedy is an action for damages. In practice, a mistress might make a deduction for breakages from the wages of a careless servant and counterclaim that amount if she is sued by the servant for the balance of her wages. It would be a question of fact whether, in the circumstances, the servant's refusal to move to the new house was justified. In our view, if her work would be increased in the new house or her interests would be prejudiced in some other way, she would be entitled to refuse to go to the new house.]

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," May 15, 1878

The Essential Character of Pharmacy

I define pharmacy viewed as a special science as the study of such preparations, processes, and their application as are concerned in the art of medicine. The knowledge of their application leads us directly to the grand art of dispensing, and a mastery over that art is indispensable to every pharmacist. The way in which the various preparations and processes enjoined are used, combined, assisted, or controlled by the physician, the mode in which his instructions may be best carried out, his directions followed, and his intentions realised, the action and re-action of the remedies obtained by such processes on other remedies forming the compound ingredients of a prescription, is a second but an essential characteristic included in the definition of the word pharmacy, and without which the definition is incomplete. See what happens. There ensues inevitably a mutual understanding between the physician and the pharmacist. Both respect each other, and respect is the basis of true friendship. Am I not right, therefore, in saying that though without chemistry we cannot move a step, and though *materia medica* and botany are necessary to our education, yet that pharmacy has a province of its own—one of paramount importance—and one which we are bound to learn thoroughly if we would know our own business, and hope for ultimate success? [From an address by J. Ince to the South London School of Pharmacy.]



[Commenced C. & D., July 5, 1924]

Output.—A given quantity of goods or material produced, within a certain period. The essentials of a maximum output are good workers, efficient works organisation, machinery and management. If the management look to their side of the question and are satisfied that all has been done for the comfort and well-being of the employee, mutual confidence between employer and employed should follow, resulting in increased and quicker output. To encourage production and stimulate the goodwill of the employee many schemes of wage-paying have been promoted in this and other countries. Methods of remunerating labour vary in different industries; one of them guarantees the worker his time rate; he has a certain time to finish the job, and if he finishes it in shorter time he receives a bonus of a percentage on the time he has saved.

Over-Capitalised.—This expression infers that by reason of the shrinkage, wasting, or obsolescence of the assets held to earn income, the profits are insufficient to pay a dividend or interest. In the same way, if additional stock has been issued without adequate provision having been made to pay interest, or the nominal capital has been increased without a corresponding payment in cash, the company can be said to be "watering its capital." It will be seen that if capital is increased with a view of increasing profit and such profit does not materialise, the rate of interest will be smaller, and if, as time passes, no improvement in the profit-earning capacity of the company occurs, it is obviously over-capitalised.

Overdraft.—This represents a loan by a banker to his customer. In the process of production, it is often necessary to borrow money, and with the increasingly complex nature of industry, the banks play an important part in the distribution and exchange of wealth. Overdrafts may be effected against the lodgment by the borrower of realisable assets or security, and interest, according to the state of the money market of the day, is charged by the banker for the accommodation.

Overdue Bill.—A bill of exchange is payable on demand or at a fixed or determinable future time. If on the expiry of the last day of grace the acceptor does not pay the bill, it is said to be overdue or dishonoured by non-payment. The holder of the bill has no right of action against the acceptor until the expiry of the days of grace, although he is entitled at any time on the last day of grace to give notice of dishonour to the drawer and indorsees. Discharge of the bill may be by cancellation, waiver, and alteration.

Owner's Risk.—For the carriage of goods railway companies quote two rates—an ordinary rate under which they accept the usual liabilities of a carrier and a lower rate under which their liability as carriers is limited. The special contract that is made when goods are consigned at the lower rate is usually known as an "owner's risk" contract, as under it the goods are, to a great extent, at the risk of the owner even while they are in the custody of the railway company. In order that a special contract of this kind shall be binding upon a consignor of goods it must have been signed by him. Under the standard form of "owner's risk" contract, the railway company is relieved of all responsibility in respect of the goods for "loss, damage, misdelivery, delay or detention," unless the owner of the goods can prove that the damage or otherwise was due to "wilful

misconduct" on the part of the servants of the railway company. However, there is a proviso that the company will accept responsibility for (a) *non-delivery* of any package or consignment that is properly and fully addressed (unless the non-delivery is due to accidents to trains or fire); (b) *pilferage* from packages protected otherwise than by paper or other packing readily removable by hand, provided that the pilferage is pointed out to a servant of the railway company on or before delivery; and (c) *misdelivery*, where goods that are fully and properly addressed are not tendered to the consignee within twenty-eight days after despatch; but, in any case, subject to the condition that the railway company shall not be liable if it can prove that the non-delivery, pilferage or misdelivery was not caused by the negligence or misconduct of its servants. It is clear that under an owner's risk contract the owner of goods sent by rail has little or no chance of recovering compensation should the goods be damaged or broken in transit, because in order to do so the onus is upon him to prove that the employees of the railway company were guilty of "wilful misconduct," which it is practically impossible to do. "Wilful misconduct" means a great deal more than gross negligence, so the mere fact that goods not easily broken have been smashed as the result of careless handling is not sufficient to support a successful claim for damages. On the other hand, if the goods are lost or greatly delayed, there is a reasonable chance of a claim succeeding.

Oxygen, Sale of, in Pharmacies.—Oxygen is one of the items expected to be stocked or supplied under the National Health Insurance Act. The method of sale is to charge per foot of oxygen; loan the cylinder and fittings not exceeding a certain period. The charges are duly set out in the C. & D. Price List.

Ozokerite, Commerce.—The following figures show the imports into and re-exports from Great Britain during the periods 1922-26, inclusive:—

Imports

From	1922	1923	1924	1925	1926
Germany ..	Cwt. 9,812	Cwt. 10,369	Cwt. 9,512	Cwt. 10,478	Cwt. 7,981
Czecho-Slovakia ..	366	14,595	336	39	—
France ..	—	8	60	—	120
Austria ..	2,136	3,559	2,413	5,640	3,572
Other foreign countries	1,066	2,407	1,486	1,328	1,396
Total from foreign countries ..	13,380	30,938	13,807	17,485	13,069
Value .. £	42,509	52,619	40,506	60,018	44,035
Total from British countries (Canada) ..	18	—	13	29	—
Value .. £	15	—	83	150	—
Total	13,398	30,938	13,820	17,514	13,069
Value .. £	42,524	52,619	40,589	60,168	44,035

Re-exports

To	1922	1923	1924	1925	1926
Total to foreign countries ..	Cwt. 2,729	Cwt. 140	Cwt. 223	Cwt. 141	Cwt. 281
Value .. £	8,655	616	512	511	486
Total to British countries ..	47	114	111	207	196
Value .. £	99	433	496	733	605
Total	2,776	254	334	348	477
Value .. £	8,745	1,049	1,008	1,244	1,091

Ozokerite is a bituminous product occurring naturally in the vicinity of petroleum springs, and is the raw material used for the manufacture of ceresin. Galician ozokerite is the best known, whereas that found on Tchelken Island is softer and darker. In its crude state ozokerite varies in colour from pure yellow to dark brown. As a rough test of value, the degree of facility in kneading between the fingers is of assistance. The specific gravity varies from 0.91 to 0.97, and the melting point is dependent upon the proportion of liquid hydrocarbons present. The upper limit of about 100° C. is

The C&D Commercial Compendium

reached by the so-called "marble wax." Ozokerite consists mainly of hydrocarbons, but oxygenated and wax-like bodies are also present. Water and mineral matters are removed by a liquating process and by boiling out with water. Naturally occurring impurities present are water, clay and liquid hydrocarbons. Commonly used adulterants are asphaltum (mineral pitch) and residues from the distillation of paraffin oil. The examination of ozokerite consists of the determination of its loss on heating to 150° C. (this should not exceed 5 per cent.) of its melting and solidifying points and of its mineral content. Though formerly ozokerite was distilled in a current of super-heated steam for conversion into "white paraffin-wax," now it is exclusively used for the preparation of ceresin. Ceresin resembles beeswax in its physical characters; it is yellow in colour, but can be rendered white and odourless by refining. Its melting point lies between 61° and 78° C. Ceresin is not adapted for candle-making, as it causes persistent smoke, but it is used to stiffen the wicks of night-lights. The melting point is the important factor in the determination of ceresin. Owing to its high price, ceresin is adulterated largely with paraffin wax and bleached resin. To raise the melting point, carnauba wax is added. Resin may be detected by a definite acid value sample and carnauba wax by the unsaponifiable matter. Commercial ceresin is frequently coloured with turmeric and other colouring matters, which may be detected by shaking the melted sample with alcohol. Paraffin wax is detected by heating the sample with absolute alcohol, allowing to cool, and placing a few drops of the alcoholic solution under the microscope, when the residue will appear crystalline. The following table gives a means of ascertaining the degree of purity of a sample of ceresin:—

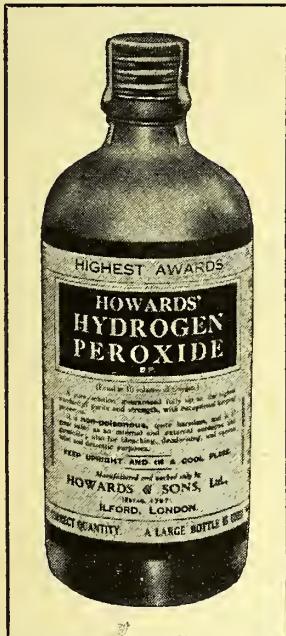
Ceresin	Paraffin wax	Melting pt.°C.	Solidify- ing pt.°C.	Specific gravity at		
				15°C.	83°-85°C.	95°C.
Percent.	Per cent.					
100	0	70 -73	69.5	0.921	0.7835	0.774
95	5	69 -73	68.5	0.919	—	—
90	10	68 -72	66.5	0.9175	0.7800	—
80	20	66 -71.5	65.0	0.914	0.7775	—
70	30	64.5-70	63.0	0.910	—	—
60	40	62 -69	62.0	0.907	0.7705	—
50	50	58.5-67	60.0	0.904	—	—
40	60	56.5-65	59.0	0.900	—	—
30	70	54.5-62	57.0	0.897	—	—
20	80	52.5-58.5	54.0	0.894	—	—
10	90	49.5-54.5	49.0	0.892	—	—
0	100	47 -52	47.0	0.889	0.7655	0.756

P

Packed Goods Trade.—Chemists who do a busy trade in small quantities of drugs and chemicals are aware that much time is saved by having in readiness the quantities most in demand. The question whether it is better to pack these goods on the premises or to buy them ready packed is one for individual decision. The following list of articles for this class of trade is adapted from one given in THE CHEMIST & DRUGGIST some years ago:—Borax (powder), boric acid (powder), compound liquorice powder, cream of tartar, Epsom salts, Glauber's salt, Gregory's powder, hiera pira, insect-powder, iron carbonate (oxide), jalap (powder), linseed, liquorice (juice), magnesium carbonate, ointments (basilicon, boric, zinc, etc.), oxalic acid, pills (aperient, compound rhubarb, liver, etc.), potassium permanganate, red precipitate, rhubarb (powder), saffron, salt of lemon, senna leaves, sodium bicarbonate, sugar of lead, sulphur (flowers and milk of), tartaric acid, white precipitate, zinc sulphate. Modifications of this list to suit individual requirements will readily suggest themselves.

Packing Cases.—This term generally refers to the containers for bulk goods; those for individual articles are known as cartons. Of recent years, many improvements have been effected in the production of packing cases, and, in addition to the various types of wooden

boxes and crates, packing cases are now obtainable made in such materials as fibre, wood-pulp board, leatherboard, straw-board, and manilla, several of which have special weatherproof properties. There are a number of different methods of binding and fastening which render packing cases pilfer-proof. For fibre cases, a special adhesive is obtainable in various grades, according to the weight of the package to be sealed; while for wooden crates, boxes, and the like, strapping machines and seals are available, which save time in despatch, as well as safeguarding the contents. This method can also be used for fastening bales and bundles and the larger cardboard containers. It consists of two or more steel hoops of three-eighths inch to one inch width, by 26 gauge, drawn tightly round a case or package, and secured by special seals which hold the two ends together. The hooping bites hard into the corners of the case, and holds it in a vice-like grip, and a small machine, supplied for the purpose, enables the strapping and sealing to be carried out in two simple operations. Some manufacturers have their trade marks reproduced on their packing cases. Others show pictures of the goods, or use the same colouring and designs as those employed on the smaller containers in which the individual goods are packed; while some firms have printed on their packing cases reproductions of their factory buildings. Suitable matter of this sort printed on crates or packing cases is valuable free publicity, and it costs very little more to display a slogan or a reproduction of a trade mark than it does to show the firm's name, which serves merely as a means of identification. For mere purposes of identification, the branding of the name on the packing case is sufficient; but for combined publicity and identification, a more satisfactory method is to print the matter on the boxes, for by this means it is not only possible to produce wording in any style and size, but also to have any other markings in any desired colours. Box-printing is not necessarily an expensive undertaking, for, once the machinery has been installed, the cost of running it is relatively small, and the same machine can be used for producing any lettering or design. The machines are available in standard sizes, ranging from the smallest model, which will take boards measuring 6 to 18 in., to the larger types capable of printing boards 2 ft. by 4 ft. in size. One of the smallest varieties of these appliances will print boards off at a rate of 10,000 an hour, while larger models, adapted for multi-colour work, produce 4,000 an hour. In the latter case, however, the speed has to be varied according to the class of work that is being executed. Modern box-printing machines work on the rotary process. The matter to be printed is engraved on special brass plates, which are attached to cylinders by means of screws and dovetailed nuts, arranged in slots in the cylinder. These revolve in conjunction with inking and distributing rollers, and the flow of ink is adjustable to suit the requirements of the particular work being carried out. The sheets of wood or boards are fed on to the rollers automatically, by means of an endless feed chain, which passes up the centre of the chamber on which they are placed, and, by means of a feed bar, the boards are carried forward into contact with the inked rollers. Branding machines are of simpler construction, and are heated by means of atmospheric gas burners, which are placed in a heater box; the heat can be regulated at will, as there are independent taps for each burner. The board to be branded is placed under the platen, and pressure is brought to bear upon it by means of a treadle, thus leaving the hands of the operator free. The platen is adjustable to take various thicknesses of boards, and there is no limit to the length of board that can be inserted into the machine. Another type of machine is available for branding boxes and packing cases after they are made up. This is advantageous where boxes are made up from stock and branded with special marks. The rotary box printing machine is, however, rapidly replacing the branding machine, for, by the use of the former, the packing case can be made to take a definite share in the publicity scheme.



The Public do not yet realise
the extraordinary usefulness
of

HYDROGEN PEROXIDE

in a dozen ways in every
household.

If the Retailer would take
the trouble to explain its
value to his clients he would
be surprised at the quantity he could sell.
A quiet talk across the counter would ensure
at least one bottle being in constant use in
every customer's house.

If he sells HOWARDS', he is selling an absolutely all-British product (not foreign stuff watered down), a product properly stabilised and very elegantly put up, and one which shows him an excellent P.A.T.A. profit.

If he makes a window or counter display, he receives a BONUS which brings him a

62% PROFIT
ON HIS OUTLAY.

HOWARDS & SONS, LTD. (Est. 1797), ILFORD, LONDON.

JOHNSONS

CAN QUOTE YOU FAVOURABLY AND CAN GIVE
PROMPT DELIVERIES FOR PACKED OR BULK SUPPLIES.

EMULSIONS OINTMENTS LYSOL

PARAFFIN COD LIVER OIL CHEMICAL FOOD

MAG. CIT. & SALINE

TOILET PREPARATIONS A SPECIALITY

JOHNSON & SONS
MANUFACTURING CHEMISTS, LTD.
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**ACID Warrington Chemical & Drug Co., Ltd.
SALICYLIC Paddington, nr. Warrington.
PARA AMIDO PHENOL SODA
SALICYLATE**

BURKETT, SHARP & CO., LTD.

DRUGS 8 HARP LANE *CHIMICALS*
LONDON, E.C.3

DRUGS, GUMS, POWDERS, OILS, &c.

AGAR AGAR	DRAGON'S BLOOD	KAMALA	MANNA	SEEDS
AOLES, &c.	ERGOT	KOLA NUTS	NUTMEGS	SENNNA
BALSAMS	FLOWERS	LEAVES	NUX VOMICA	SOAPs
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Fine Chemicals Opium Derivatives

ALOIN	DIAMORPHINE	LEPTANDRIN
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CAPSICIN	GINGERIN	SANTONIN
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CODEINE	JALAP RESIN	VERATRINE

Goods covered by Dangerous Drugs Acts offered subject to all regulations.

T. & H. SMITH LTD

BLANDFIELD WORKS: 25 CHRISTOPHER STREET: 32 & 34 VIRGINIA STREET
EDINBURGH. : LONDON, E.C.2. : GLASGOW.

ESTABLISHED 1827



Hubbuck's Pure Oxide of Zinc

is made by sublimation, and is warranted to contain upwards of

99.9 PER CENT.

of pure oxide; in fact, the impurities are not traceable.

Thos. Hubbuck & Son, Ltd.

ESTABLISHED 1765

24 Lime Street, London, E.C.3

MANUFACTURERS OF WHITE LEAD, WHITE ZINC, PAINT, OILS, COLOURS, VARNISHES, &c.

Australian Office: 34 Queen Street, Melbourne.

Sold by the following Wholesale Druggists in Boxes of 7 lb. and 14 lb. stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles:

Allen & Hanburys Ltd.	Hodgkinson, Prestons & King
Ayton, Saunders & Co. Ltd.	Horne, L.A., & Sons
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Boots Pure Drug Co. Ltd.	Lothhouse & Saltmer Ltd.
British Drug Houses Ltd.	Mackay, Jno., & Co. Ltd.
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Clay, Dod & Co.	Pinkerton, Gibson & Co.
Cockburn & Co. Ltd.	Potter & Clarke Ltd.
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Evans, Gadd & Co. Ltd.	Silversides, R. B. G.
Evans Sons Lescher & Webb Ltd.	Smitb, T. & H. Ltd.
Ferris & Co.	Southall Bros. & Barclay Ltd.
Gale & Co.	Summer, R., & Co.
Glasgow New Apothecaries Co.	Thompson, John, Ltd.
Goodall, Backhouse & Co.	Wilkinson & Simpson Ltd.
C.R. Harker, Stagg & Morgan Ltd.	Willows, Francis, Butler & Thompson Ltd.
Harkness, Beaumont & Co. Ltd.	Woolley, Jas., Sons, & Co. Ltd.
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E. Fougera & Co., 99-102 Beekman Street, New York	Roller & Shoemaker, Philadelphia
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A PART from its uses in First Aid and as a mouth wash, hydrogen peroxide is now a necessary adjunct to every woman's toilet. Your customers appreciate a good product. You will always satisfy them with Hydrogen Peroxide Solution, P., D. & Co., which is pure and "of lasting strength." With but little effort—and we will help—you can easily increase your sale of Hydrogen Peroxide Solution, P., D. & Co. Buy on best terms! A postcard will bring particulars.

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SPICES, CRUDE DRUGS
CHEMICALS, ESSENTIAL OILSAMERICAN BOTANICALS
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COD LIVER OIL
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Cables: "Podophylum," Calcutta.
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B.P., White Industrial, and
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Sugar-coated Quinine Tablets and Pills.

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Telegrams: "Kininfabriek Bandoeng."

Samples, prices and particulars on application.

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Gelatine-coated Oval Pills.

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TECHNICAL CHEMICALS
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 ESSENTIAL OILS
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Essences—Flavourings—Colours

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SPECIAL QUOTATIONS
ON REQUEST

Wholesale Only

CHAS. ZIMMERMANN & CO. (Chem.) Ltd.

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Telegrams:

Imand: Acidolan, Bilgate, London.
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A B C (5th & 6th Eds.), Lieber's,
 Bentley's, Premier, Marconi's,
 Private.

Telephone:

ROYAL 1866
 (Four lines).

COCAINE EPHEDRINE

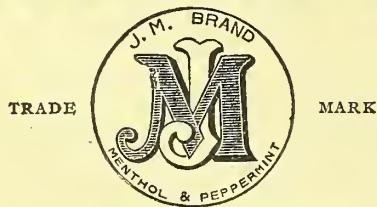
“Merck” Brand.
Specify “Merck.”

Telephone : Holborn 1444 (2 Lines).

Telegrams : “Nappchem London.”

H. R. NAPP LIMITED,
3 & 4, Clements Inn, London, W.C.2.

GENUINE CONSUMERS AND DISTILLERS
after once using
PREFER AND CONTINUE TO USE
“J.M.” BRAND



JAPANESE PEPPERMINT OIL

AND
they are enjoying the
HIGHER PERCENTAGE OF MENTHOL it contains.

For Samples and Particulars apply to
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write to the manufacturers direct:

Japan Menthol Manufacturing Co.

— LIMITED —
G.P.O. Box No. 48. OSAKA, JAPAN.

SOUTH AFRICA
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WHOLESALE AND RETAIL
CHEMISTS AND DRUGGISTS

Druggists' Sundriesmen.
Dealers in Surgical Instruments,
Dental, Optical,
and Photographic Goods,
Perfumery, and Assay and
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to Hospitals and
Public Institutions.

AGENCIES UNDERTAKEN

London Office :
12-14 LAFONE ST., LONDON, S.E.1

WINDOW STICKERS FOR Non Substituting CHEMISTS

'ASPRO'

Write for this
TO-DAY



We have been requested by chemists to supply anti-substitution advertising matter. We have, therefore, prepared this window sticker, size 23½ ins. x 7 ins. We suggest you write for one to-day. It will be sent Post Free



ALSO PUT IN AN 'ASPRO'
WINDOW DISPLAY—Connect up with 'ASPRO'
continuous advertising and make £5 to £10 a week.

**ASPRO IS LISTED ON THE P.A.T.A.—
and shows you a protected profit**

**LOOK WHAT
CHEMISTS SAY**

The chemist who places the 'ASPRO' Window Display in his window gets the benefit of this advertising just the same as if his own name appeared in the advertisement. Demonstrated results are always better than statements, so we herewith give one from the many letters received from chemists who are featuring 'ASPRO' Window Displays. It tells its own story.



Messrs. Gollin & Co. Pty. Ltd.

Dear Sirs,—I have pleasure in enclosing for your inspection a photograph of 'ASPRO' display. This display has been entirely successful except winning a prize in the competition which is yet to be judged. Apart from that I am well pleased with the results. Taking into consideration that 'ASPRO' is extensively advertised and has become a household word with people, I think that when I state that the sales almost doubled themselves that this fact is worth recording. Over and over again they are being bought by those who have once taken them. This, in short is eloquent testimony of their worth. That they do what you claim I have no doubt, and however critics may argue their composition 'ASPRO' remains pre-eminent, or, as I show in the window, "the best by every test." Faithfully yours—

P.S.—In fairness to 'ASPRO' I should state that 'ASPRO' customers are frequently customers for other goods (verb. sap.).

'ASPRO'
REG. TRADE MARK

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to medical science, and its claims are based on its superiority.

Agents: **GOLLIN & Co. Pty. Ltd. ('Aspro' Dept.), SLOUGH, Bucks.**

No proprietary right is claimed in the method of manufacture or the formula.

Phone: Slough 608.

NULOMOLINE

THE HONEY OF SUGAR

NULOTOLINE

PHARMACEUTICAL

A high-density syrup made from Cane Sugar - - -
 A well-balanced preparation of Invert Sugar and Sucrose - - -
 Non-Crystallizable - - - Non-Fermentable
 The ideal base for all syrups where sugar and glycerine are used

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 SOLE DISTRIBUTORS FOR THE UNITED KINGDOM:

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17 Jewry Street - LONDON, E.C.3

Scottish Office: 140 WEST GEORGE STREET, GLASGOW

ESTABLISHED 1772

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care in the greatest chemical purity by
 Messrs THOMAS & WILLIAM HENRY, 11, East Street, St. Peter's, Manchester.

And is sold in Bottles, authenticated by a stamp bearing their name. Trade Mark, "Henry's Calcined Magnesia."
 New York: Messrs SCHIEFFELIN & CO., William Street. PRICE 2s. 9d. Paris: Messrs. ROBERTS & CO. 5, Rue de la Paix.

BESORBON

(Dr. Hill's Formula)

MEDICINAL SNUFF. ABSOLUTELY THE
 FINEST REMEDY FOR CATARRH & COLD
 IN THE HEAD.

Richard Dickeson & Co.

(Incorporated with Reynolds, Sons & Co., Ltd.)

57-59 CHARTERHOUSE STREET, LONDON, E.C.1.

Antiphlogistine

£5 Orders give 33% net. Carriage Paid

THE DENVER CHEMICAL MFG. CO., LONDON, E.3

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Wholesale
Manufacturing Chemist

SHEN WORKS
TOWER BRIDGE RD.
LONDON - S.E.1

Telephone :
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Telegrams :
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LONDON.

For
"SPUN"
OINTMENTS

"SPUN" LIME CREAM AND GLYCERINE

Sells at sight, and repeats
itself steadily

A range of 20 different packs in all sizes

ATTRACTIVE SHOWCARDS

Also in bulk in 1, 5, or 10 gallon tins or 40
gallon casks.

SAMPLES ON APPLICATION

Dr. BENGUE'S BALSAM

RHEUMATISM, NEURALGIA, GOUT.

Dr. BENGUE'S ETHYL CHLORIDE.
Dr. BENGUE'S DRAGEES.—EUPURGO.
PULMO (BAILLY).—FORXOL.—OPOBYL.
ANESTILE.—NARCOTILE.—HEMO STYL.
LIPIODOL.—MUTHANOL.—ARHEMAPECTYL.
ENTERO ANTIGENS.—STAPHYLOTHANLL.
NEOPANCARPINE, RICARD'S CACHETS.

BENGUE & CO., LTD., MFG. CHEMISTS,
24 FITZROY STREET, LONDON, W.1.

Thermal Liniment

A very warm and stimulating Liniment.

Nothing produced in the British Empire or in America
can be found more effective and quick in its remedial
action.

Put up in neat 3 oz. panelled bottles in showy cartons
and with labels of a compelling character.

Retail 1/3. Price 8/6 Per Dozen.
6 dozen 8/- Per Dozen.

Seller's name and address printed
free on 3 dozen lots.

Apply—
LOFTHOUSE & SALTMER, Ltd.

Wholesale Druggists

HULL

Iglodine

THE SAFE AND PURE ANTISEPTIC.

And its Kindred Preparations, are Dependable,
Quick-selling and Profitable to the Chemist.

THEY SATISFY BUYERS AND BRING REPEAT ORDERS!

IGLODINE, the Ideal Home Healer, is Highly Recommended
by the Medical Faculty, and Retails at 10*1/2*d., 1/6 and 3/- per
Bottle. IGLODINE Specialities include—EMBROCATION,
TOILET SOAP, OINTMENT, CREAM, THROAT TABLETS,
SUPPOSITORIES, SHAVING STICK, PASTILLES, NASAL
DOUCHE, SALICYLATED: Also FIRST-AID OUTFITS.

P.A.T.A. Photo-Litho Showcards, Window Display Scheme.
Particulars and Prices from

THE IGLODINE Co., Ltd., NEWCASTLE-ON-TYNE.

Increased Profits on Irving's YEAST-VITE Tablets

AND **YEAST-VIMAL** VITAMIN FOOD
TRADE MARK

On and after APRIL 2nd, 1928, YEAST-VITE Tablets and YEAST-VIMAL will be sold under P.A.T.A. protection as follows :—

YEAST-VITE	Sizes	1/3	3/-	5/-	12/-	24/-	per doz.	Nett
	at	12/-	28/10	48/-	114/-	220/-		
YEAST-VIMAL	New Sizes	7½d.	1/2	2/2	5/-	9/6	30	Days
	at	6/-	11/3	20/9	48/-	90/-		

SPECIAL WINDOW SHOW BONUS TERMS

Cancelling all previous Bonus arrangements.

For a 14-days' Window Display Bonus will be given as under :

YEAST-VITE	14 to the Dozen on £5 order and over	(Assorted Sizes)	Bonus on 1/3, 3/- and 5/- sizes only.
13	" No Bonus " 12/- or 24/- sizes, or less than ½-dozen 5/- size.	£3	

EXAMPLES	Order.	Bonus.	Order.	Bonus.
3 doz. 1/3 £1 16 0	3 only 1/3	4 doz. 1/3 £2 8 0	8 only 1/3	
1 " 3/- 1 8 10	1 " 3/-	1½ " 3/- 2 3 3	3 " 3/-	
½ " 5/- 0 12 0	½ " 5/-	½ " 1 4 0	1 " 5/-	

£3 16 10 EXTRA PROFIT 6/9 £5 15 3 EXTRA PROFIT £1 4 0

YEAST-VIMAL 13 to the Dozen on £3 order and over (assorted sizes).

The Prominent Display of New and Attractive Show Material Will Double Your Sales. Write for Photographic Illustrations (with sizes) of New Showcards, Cut-outs, etc., sent FREE and carriage paid on request.

IRVING'S YEAST-VITE LIMITED

Phone: Clerkenwell 4623 (2 lines).

12-16 LAYSTALL STREET, CLERKENWELL, LONDON, E.C.1

Wires: Yeastvite-Cent., London.

CAPULVÆ
or
GELATINE CAPSULES
FOR POWDERS
Filled or Empty.

SPECIALITIES :

Private Formulae, Prescriptions,
and Gland Products.

John W. Mawson & Co., Ltd.
West Norwood, London, S.E.27

Phone: Streatham 0718.

When ordering through Wholesalers
specify "CAPULVÆ CAPSULES."



Bismogenol
TOSSE
EXTENSIVELY ADVERTISED TO THE
MEDICAL PROFESSION

Importers:
Boxall, Smith & Co., 163a Strand, London, W.C.2.

CEPHOS
THE PHYSICIAN'S REMEDY
ENJOYS AN INCREASING SALE

Liberal Trade Terms
Powerful Advertising

Powders and Tablets
Retail at 1/3 and 3/-

Write for WINDOW DISPLAY & other PUBLICITY
MATTER to - - Cephos, Ltd., Blackburn.

Chesty people always want

'GRIPS'

FIRST-AID PASTILLES

Watch your stocks!

Distributors to the Wholesale and Retail Chemists' Trade :

THOS. CHRISTY & CO., 4-12 Old Swan Lane, London, E.C.4



Beecham's Pills

1s. 3d. size	-	11s. 9d. per dozen
3s. 0d. "	-	28s. 0d. "
5s. 0d. "	-	54s. 0d. "

Beecham's Powders

1s. 3d. size (8 Powders)	11s. 9d. per dozen
5s. 0d. " (40 ")	54s. 0d. "

Less 2½% Cash Discount.

*A further 5% allowed for Window
or other Advertising display.*

Orders—Minimum Quantity **FIVE POUND**
(Assorted sizes, Pills and Powders).

PACKAGES FREE. CARRIAGE PAID.
TERMS: CASH WITH ORDER.

All communications to be addressed and cheques made payable to:

BEECHAMS PILLS LIMITED,

Sales Office:

BEECHAM-VENO Buildings, Chester Road, MANCHESTER

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More women than ever before are buying Snowfire Cream. The reason is obvious. They find it every bit as good for improving and beautifying the complexion as the more expensive preparations—but at a much lower price. Hence its increasing sales. And, remember, consistent advertising is helping to claim new users every day. A good sound line, which means quick sales and rapid turnover.

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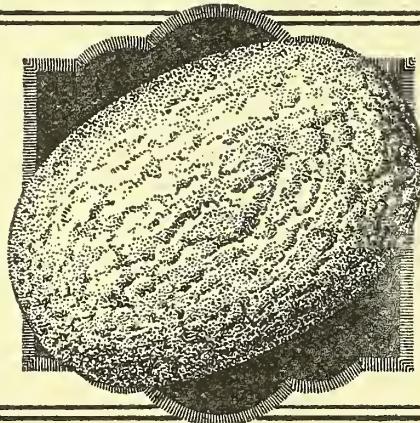
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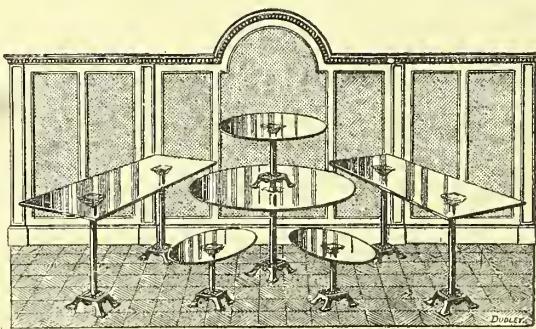
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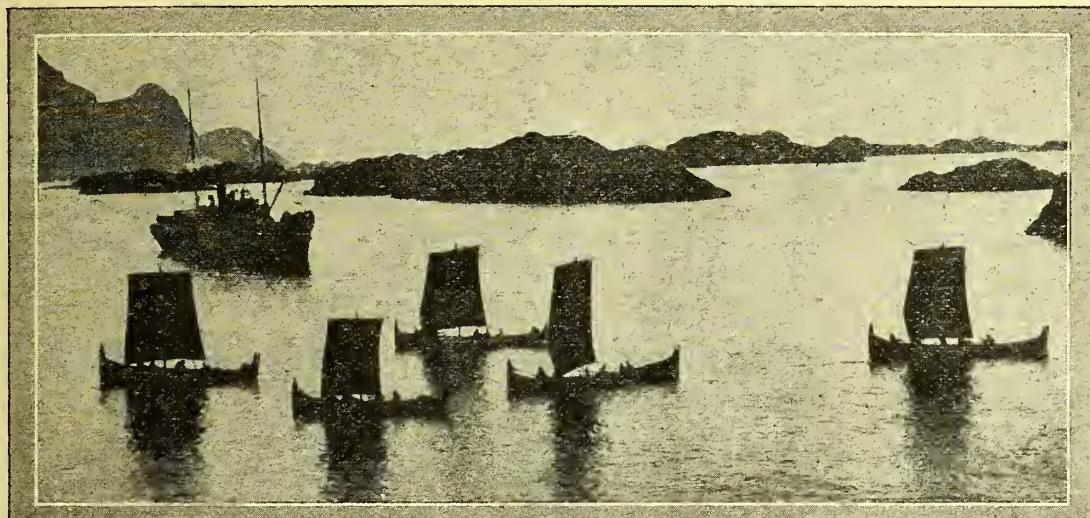


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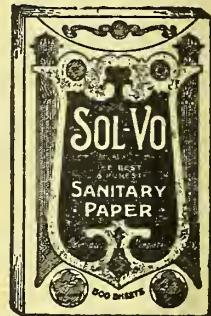


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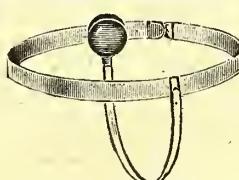
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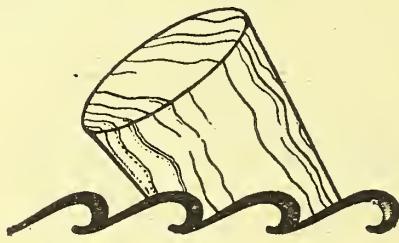


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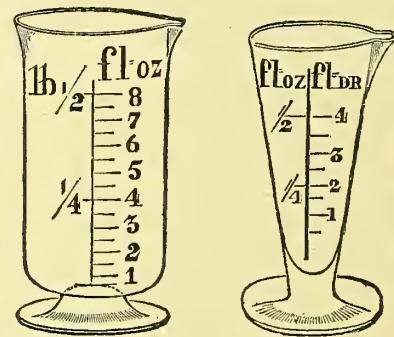
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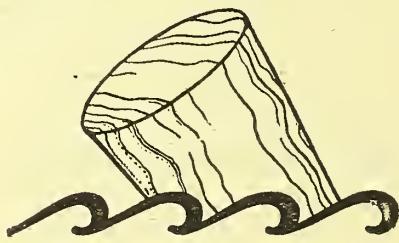
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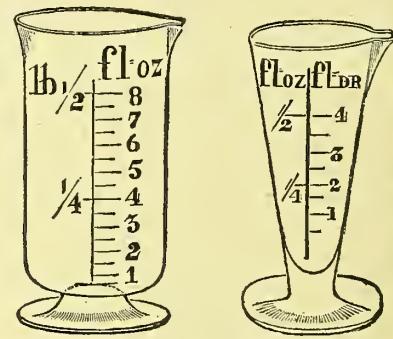
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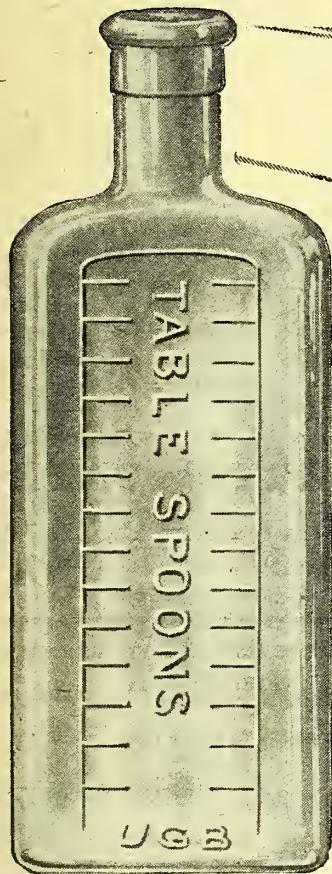
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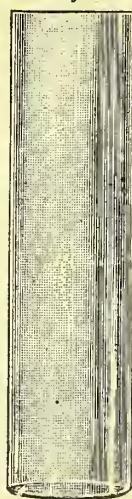
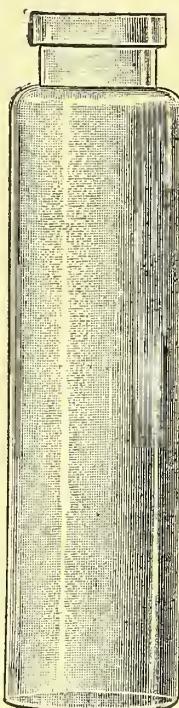
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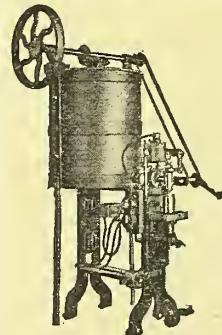
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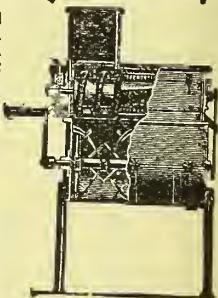
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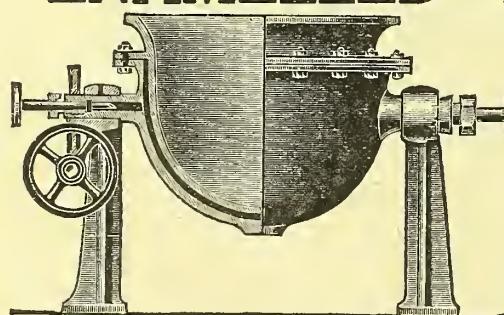
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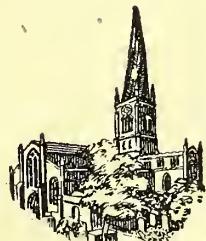


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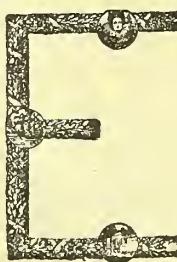
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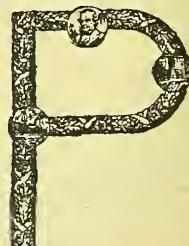
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MAY 19, 1928.

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9.—SUSSEX.—General Retail and Dispensing Business, with Kodak Agency; returns £1,450; net profit £360; audited accounts; scope for increase in Agricultural; double-fronted shop; house and small garden; moderate rent; further details on application.

10.—ESSEX.—Modern General Retail Business, with Kodak Agency; returns £30 weekly, with scope for Optical; double-fronted shop, fitted in oak and fully stocked; flat over pharmacy with bathroom; held on lease; price £1,100, or goodwill £250, plus valuation of stock and fixtures.

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13.—SOMERSET.—Family Retail and Photographic Business; established over a century; returns £1,050; sadly neglected for some years; old-fashioned fixtures; good working stock; lock-up shop; rent and rates £58; price about £600.

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1.—BLACKPOOL.—Recently established Chemist's Business, on lease 15 years, at rental of £52 for first 3 years and £78 for remainder; returns £42 per week; stock approximately £400. Further particulars on application. (161)

2.—STAINES.—Recently established Drug Stores (good opening for qualified man), in main thoroughfare; 20 years' lease at £200 per annum; returns as drug store average £30 per week; excellent living accommodation; must be disposed of quickly. Further particulars on application. (158)

3.—BRIGHTON.—Retail Dispensing Business; premises consist of single-fronted shop; 15 ft. frontage, with dispensary and large basement; held on lease 17 years at £52 p.a. inclusive; returns average £20 p.w.; can be increased. Full particulars on application. (147)

4.—LONDON, S.W.—Two small Businesses for immediate disposal; one in good position on main bus and tram route; premises held on lease, 16½ years to run; rental £2 7s. 9d. p.w. Takings approximately £765; can be increased under personal supervision. Further Business situate in thickly populated working-class district, with good possibilities for owner manager; premises held on lease, 16 years to run at rental of £60 p.a.; dwelling accommodation sub-let £65 p.a.; turnover approximately £1,090. Full particulars on application. (151)

5.—LONDON, E.—Drug and Photographic Business, for immediate disposal; on lease, 13 years to run, at rental of £120 p.a.; double-fronted shop; with good living accommodation attached; side and back entrance. Further particulars on application. (156)

6.—LANCS.—Old-established Chemist's Business, with Post Office attached; held on quarterly tenancy; lease might be obtained, or property purchased for £1,200; returns, £15 per week, all cash; rent, £78 p.a.; living accommodation; price asked, £750. Fullest particulars on application. (142)

7.—NORTH-WEST DISTRICT.—Family Retail Dispensing Business; double-fronted corner shop, with room at rear; flat with side entrance, consisting of three rooms; two garages; held on lease 12 years at £140 p.a.; flat let off at £103 p.a.; returns average £20 p.w.; can be increased. Full particulars on application. (146)

8.—BLACKBURN.—Drug Stores in main thoroughfare, on lease, 7 years to run, at £60 per year; returns, £18; large lock-up shop, with excellent window; stock about £250. Offers invited. (140)

9.—DORSET.—Old-established Family Retail Dispensing Business; returns £1,800 p.a., all cash; owner retiring; large shop, fitted mahogany; well stocked; good house attached (at present let at £110 p.a., lease expires October next); property for sale, with business open to offer. Further particulars on application. (153)

10.—CAMBRIDGESHIRE.—Old-established high-class Dispensing and Retail Business; held on advantageous lease; well fitted and large stock carried; returns approximately £3,000, at good profit; excellent living accommodation; every investigation invited. Full particulars on application.

11.—LEEDS.—Family Retail and Dispensing Business in thickly-populated working-class district; corner position; good opening for Chemist-Optician; dwelling accommodation attached; returns over £1,000; rent £52 per annum; price for quick sale £350; only Kodak Agency for 2 miles. Full particulars on application. (155)

12.—BERKS.—Established Pharmacy; lease 6 years to run, with promise of renewal 14 or 21 years; rent £46 p.a.; large 7-roomed house attached; garden and garage. Further particulars on application. (157)

13.—GRIMSBY.—Retail Dispensing Business, on main road; vendor's property; lease will be granted at £104 per annum; returns £38 to £40 per week; stock about £750; owner desires to leave district on medical grounds; quick sale desired. (159)

14.—CAMBRIDGE (Near).—Old-established Pharmacy, on lease 20 years at £50 p.a.; returns average £13 per week; double-fronted shop, with good dwelling accommodation. Further particulars on application. (151)

15.—CHESHIRE.—Retail Family Dispensing Business; single-fronted shop; good living accommodation; held on lease, five years, at £130 per annum; established 20 years; returns average £32 per week. Full particulars on application. (152)

16.—CORNWALL.—Chemist Business, recently established; lease will be granted for 10 years at £100 per annum; double-fronted shop; nicely fitted; well stocked; returns average £800 per annum; very large house attached; private entrance; large garden (garage at rear let off). Further particulars on application.

17.—LONDON, S.W.—Very old-established Family Retail and Dispensing Business, occupying prominent corner position in busy thoroughfare; lock-up shop with storage accommodation; held on advantageous lease at £100 per annum; returns approximately £2,500 per annum; can be increased under personal management; full particulars on application. (148)

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ANCS.—£450 purchases genuine Chemist's Business; turnover £700; Kodak Agency; N.H.I.; last 2 years under agreement; unopposed in well-populated district; increased over under direct supervision a certainty; rent £26; excellent opportunity for young, energetic man; genuine reason for sale. 106/33, Office of this Paper.

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CASH Drug and Photographic Stores, S.W.; £300; cash required down £200, balance in six months; fairly fitted and stocked; takings weekly £16 to £18; rent of premises £65 and taxes; 7 rooms and plenty of storage; M.P.S. with N.H.I. could do double here; illness cause of sale. 107/30, Office of this Paper.

CHEMIST'S Business for Sale in one of the best districts in Edinburgh; good-class trade; rapidly increasing; average increase per year for last 3 years, £300; last year £400; increase being maintained this year; assessed profits £600; property also included in sale. For particulars apply MacKenzie & Fortune, S.S.C., 40 Melville Street, who will receive offers up to May 28.

COUNTRY Business with good Optical connection and profitable Proprietaries; Kodak and Rexall Agencies; up-to-date fixtures and well stocked; good position; living accommodation available; returns £850; profit £350; low rental; can be run as a lock-up shop if required; £500 for quick sale; genuine buyers only. Apply 107/20, Office of this Paper.

DRUG Store (£300, s.a.v.) near Euston Station; splendid opening for N.H.I.; 11 years' lease; ill-health sole reason for selling; no opposition. P.C.B. 25/14, Office of this Paper.

DRUG Stores in good-class residential district 4 miles from Reading on main London road; good opening for N.H.I.; nearest Chemist 3 miles; freehold property; large double-fronted shop, handsomely fitted; nearly $\frac{1}{2}$ acre of garden; reason for disposal, failing eyesight; station 4 minutes; good service of buses; price, freehold, £2,000; s.a.v. 103/5, Office of this Paper.

FOR Sale, London, W.12, death vacancy, widow wishes to dispose of genuine Business; main position; good lease; low rent; turnover about £1,400; good profits; easily increased; living accommodation; bona-fide buyers can investigate; price for lease, goodwill, stock and fixtures, £1,800; open to an offer. 106/12, Office of this Paper.

GOOD opening for working Pharmacist with small capital in busy London road; nice house, side entrance; possession practically vacant; long lease; low rent; clean, saleable stock; easily worked; scope for increase under energetic control; owner has other interests; every investigation invited; no triflers, please. 106/15, Office of this Paper.

HANDSOME corner Chemist's Shop for Sale; well fitted and stocked; splendid chance for Optics and Photography. N.H.I.; populated East London district; long lease; low rental; price £600. Apply in first instance Cartwrights, 171 Holloway Road, N.7.

HENRY METZLER & CO., 98 Minories, E.—Owing to death of proprietor, the above old-established Retail and Shipping Business is for disposal, with immediate possession, and offers are invited. Further particulars and orders to view can be obtained from the sole agents, Berdoe & Fish, Chemists' Valuers and Transfer Agents, 41 Argyle Square, King's Cross, W.C.1.

PHARMACY for Sale, West Glamorgan; Wine Licence, Rexall Agency; long lease at low rental; lock-up shop; valuation, stock and fixtures and reasonable goodwill, or inclusive offers. 102/40, Office of this Paper.

BUSINESSES WANTED.

DRUG Store required, with Photographics; must be in shopping centre; living accommodation essential; Southern or Home Counties preferred; price about £350. Full particulars to 105/40, Office of this Paper.

MESSRS. BERDOE & FISH require several sound Businesses in London and the Home Counties, with turnover of £240 a week and upwards; cash buyers waiting; sales negotiated quickly and with the utmost privacy; correspondence, cordially invited. Transfer Offices: 41 Argyle Square, King's Cross, W.C.1.

AGENCIES.

AGENT wanted for Midlands, also for South of England. Frank Mousley, Wilderness Works, Sheen, London, S.W.14.

AGENTS wanted, calling on Chemists, London and provinces; ready selling commodities; high rate of commission only. Apply, at once, P.C.B. 26/2, Office of this Paper.

AGENTS, calling on Chemists in Somerset, Wiltshire and Gloucestershire, wanted to carry profitable line about to be introduced on home and foreign markets; good opportunities for keen men. Apply "Druggist," "Western Sales," 39-43 Queen's Road, Bristol.

AGENCY open for Scotland in popular-priced Toilet. Established Manufacturers' Agents are invited to communicate with a view to Sole Agency. 106/220, Office of this Paper.

AGENT, with staff of travellers working Scotland, and with office, showroom and warehouse in Edinburgh, desires additional Agency; first-class connection both Wholesale and Retail. Reply (in confidence) to "Agent," 107/3, Office of this Paper.

LONDON AND GREATER LONDON.—An opportunity has arisen for an appointment of two Agents, one North and one South of the river, to handle, on a liberal commission, Essences, Essential Oils, Fruit Concentrates, etc., etc., of a wide range of quality products; only those who have an intensive knowledge of the Bakery, Mineral Water and Manufacturing Confectionery trades with established connections will be considered; knowledge of Essences, etc., is desirable. Write fullest particulars in the first instance to 126/397, Office of this Paper.

EXCEPTIONAL OPPORTUNITY.—First-class Agents wanted, with liberal commission, for the following territories: South Staffs, Warwick and Worcestershire; the Potteries; Gloucester, Somerset and Wilts, to handle Essences, Essential Oils, Fruit Concentrates, Colours, etc.; best quality and competitive; only those who have a knowledge of the trade and established connections will be considered. 126/396, Office of this Paper.

NEW TERRITORY.—Agent, having first-class connection, wanted for Lancashire, calling upon Chemists and Stores, to sell on a commission basis a well-known Headache and Neuralgia Powder enjoying phenomenal sales in the United Kingdom. State, in confidence, other agencies held and how often territory covered. Apply 104/35, Office of this Paper.

PARTNERSHIPS.

ADVERTISER, M.P.S., wishes to enter into Partnership or purchase high-class Dispensing Business; London or seaside resort; bankers' and other references given and expected. 106/27, Office of this Paper.

PARTNERSHIP (view succession) offered to smart man, about 30, to take full control; with capital at own command £500; good ready-money Dispensing, Prescribing and Photo business; returns about £3,000; N.W. district. Apply for interview, with full particulars of experience, etc., to P.C.B. 25/24, Office of this Paper. No agents.

£750.—An exceptional opportunity occurs for a qualified Chemist and/or Optician to purchase an interest in Business; valuable lease; central position in main thoroughfare, with possible turnover of £5,000 per annum; position as Manager open to investor, who must be keen and capable business man. Apply 108/5, Office of this Paper.

APPRENTICES WANTED.

APPRENTICE.—Vacancy occurs for youth in high-class Pharmacy; outdoors; must have passed Preliminary. Hedley Masson, 34 London Road, Forest Hill, S.E.23.

LONDON, W.2.—Apprentice required; no premium; small wage paid. Apply 104/36, Office of this Paper.

LEGAL NOTICE.

NOTICE is hereby given that the business of Chemists and Druggists carried on by Mrs. E. G. Vincent under the style of S. W. Vincent & Co., at 302 Lower Addiscombe Road, Croydon, has been sold, as from 1st January, 1928, to Marshall Woodcock, who will be responsible for all debts incurred by the business on and after that date. Details of any debts or claims against the business up to and including 31st December, 1927, should be forwarded to Messrs. Brown, Peet & Ti

E. G. VINCENT

PREMISES TO LET.

TO CHEMISTS.—Double-fronted Shop, with dwelling-house Let in thriving manufacturing district; nearest chemist 1½ miles. Messrs. Joscelynes, Auctioneers, Braintree, Essex.

SITUATIONS OPEN.**RETAIL.****[HOME.]**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

BECKENHAM.—Qualified Manager (married) for family business, with house attached; previous experience essential. Give full particulars, stating age and salary required, in full letter. 105/220, Office of this Paper.

BIRMINGHAM.—Qualified man for relief work wanted July, August and September; Counter, Dispensing and Photographic; all-round experience necessary. Please give full particulars to Atkinson, Chemist, Six Ways, Birmingham.

LLANDUDNO.—Required, immediately, qualified Assistant age about 25 (outdoors), for high-class Dispensing and Photographic business. Please apply, giving full particulars and enclosing photograph, to Edwin Hooson, 98 Mostyn Street, Llandudno.

LONDON, EAST.—Immediately, unqualified, experienced Junior; Dispensing, Counter, Photographic. State a salary, full particulars, first letter; good references essential. 126/402, Office of this Paper.

LONDON.—Qualified Assistant, with knowledge of Photography, required about beginning of June. Apply by letter, stating age, experience, and salary required, to Secretary, Shadforth Prescription Service, Ltd., 63 Grove Road, London, E.3.

LONDON, W.5.—Qualified Assistant, age about 30, with full class Retail and Dispensing experience. Apply, with full particulars, experience, age and salary required, to 106/8, Office of this Paper.

LONDON, W.—Smart Junior Assistant wanted for good-class Dispensing business; unqualified; age about 22. Please give full particulars, age, height, experience, and salary required (outdoors). 107/33, Office of this Paper.

LONDON, S.W.—Qualified Assistant (male); capable Dispenser and good Counterman. Give particulars of experience, a height and salary required. 107/31, Office of this Paper.

WISBECH.—Competent, unqualified Assistant required for good-class business; no N.H.I., Sunday or holiday duty. State full particulars when applying, age, height, experience, salary required, undeniable references, recent photo, or int view preferred. Ralph Srafton, High Street, Wisbech, Cambs.

ASMART unqualified Assistant; one wanting a permanent and used to Agricultural trade preferred. Give full particulars as to age, experience, salary required, etc., to Glover & Co., Chemists, Driffield, E. Yorks.

ASSISTANT required for seaside summer season, June to September; used to good-class light general family business. Reply, giving full particulars, photo, and salary required. "Southend," 125/391, Office of this Paper.

CHEMIST-OPTICIAN, registered, required for East London. Must be energetic and enterprising. State age, experience and salary required to 106/16, Office of this Paper.

EASTERN DISPENSARY, Leman Street, E.1.—Applicants are invited for the post of part-time Dispenser at this Institution; candidates must be duly qualified and possess institutional experience (no Saturday duty); commencing salary £130. Applications, with not more than three recent testimonials, must be sent to the Secretary on or before Friday, June 1.

HUBERT B. FIGG, Berkhamsted, has a vacancy for a lady Assistant; must have good Dispensing experience. State in first letter qualifications (if any), age, height, experience, latest references, and enclose photo (to be returned).

JUNIOR required at once, Haslemere; good Dispensing experience. Write Harrison, 40a Ladbroke Grove, W.11.

ADY Dispenser, with Hall Certificate, age 20-25, for Walham Green district; Counter experience an advantage. Apply 125/388, Office of this Paper.

ADY, qualified or unqualified, to take charge. State age and salary required; give full references; can have meals on premises with homely and sociable people; state when free. John's Pharmacy, 56 Redmans Road, Stepney, E.1.

ADY Assistant (Minor qualification) required; must have had good Counter and Dispensing experience; permanency if satisfactory. State age, experience, and salary required. E. N. Olding, Chemist, Dagenham, Essex.

ADY Pharmacist; Dispensing, with occasional Counter; comfortable and well-equipped shop; other ladies on staff; fortnight's holiday during or before September next. Apply atthens & Son, Chemists, Leytonstone, Essex.

ADY, qualified Chemist, at once; small new shop, Thames Valley. Reply, stating age and experience, 107/13, Office of this Paper.

OCUM, Hindhead, required, June 21-July 25; must hold excellent references. Write Harrison, 40a Ladbroke Grove, W.11.

OCUM required, June 7-23; assistant kept. Full particulars, J. E. Brownlow, 33 High Street, Ibstock, Leicester.

PHARMACIST, qualified, willing to learn laboratory work, required to take charge of the Dispensary, and to assist the Medical Staff in bacteriological work, clinical photography, etc., at the Isolation Hospital and Sanatorium, Groby Road, Leicester; hours, 9 a.m. to 5.30 p.m.; Saturday, 9 a.m. to 2.30 p.m.; Sunday, 10 a.m. to 12 noon; commencing salary £250 per annum. The person appointed will be required to contribute to the Corporation Superannuation Fund. Applications, stating age (which should not exceed 35 years), and qualifications, and accompanied by three recent testimonials, to be sent to the undersigned not later than Wednesday, May 30. Stanley Banks, Medical Superintendent.

QUALIFIED Chemist and Optician for good-class business as Senior; accurate Dispenser and Refractionist; well recommended. Apply, with full particulars (photo), to 103/8, Office of this Paper.

QUALIFIED Assistant required for new Chemist and Drug-gist shop; age between 25 and 40; must be quick and accurate Dispenser, accustomed to Counter work, with a knowledge of Photography. Apply, by letter, with photo, stating experience and wages required, and when disengaged, to Secretary, Co-operative Society, Ltd., Lincoln.

QUALIFIED Manager (single) required immediately; excellent opportunity for smart and ambitious man. Give full particulars in first letter, stating age, salary, and when at liberty. 105/221, Office of this Paper.

QUALIFIED Manager, age 35-40, for small family business in London district; good Photographic experience; living accommodation available. Apply to 125/385, Office of this Paper.

QUALIFIED Manager required for branch, S.W. London; experienced and obliging; highest references. Also Junior Improver for South Coast. Send photograph and full particulars to "Chemist," 71 Buckingham Road, Brighton.

QUALIFIED Assistant wanted, between 25 and 40; single; to live in; general country trade, with N.H.I. Dispensing; also give full particulars of age, experience, and salary required. J. Marlar & Son, Ltd., Chemists and Wine Merchants, Epsom, Essex.

QUALIFIED Locum required, July 9-28 inclusive. Reply, giving usual particulars as to terms, experience, and references, to Jeffrey, 11 Forest Road, Longton, Essex.

QUALIFIED Assistant—Experienced gentleman required for position as Second in a large Pharmacy, Central London; must have had first-class experience; excellent prospects for one's permanency. Apply "Z," 125/400, Office of this Paper.

QUALIFIED Manager wanted for good-class Dispensing business, with Optical Department; must have J.C.Q.O. qualification and experience of good-class Counter trade and Kodak; undeniable references essential. Give usual particulars in letter, with photo if possible. 107/32, Office of this Paper.

QUALIFIED Dispenser, refined, enthusiastic knowledge of Photography, wanted in Torquay district; must be good man and obliging; N.H.I.; age 30 to 40. State experience and salary; send copy references; comfortable situation. 107/4, Office of this Paper.

RELIEF Manager, age 26-30, required for holiday season; for a trustworthy man of ability a permanent engagement would follow; good Window-dresser, with Photographic experience. Apply to 125/387, Office of this Paper.

SAVORY & MOORE require a qualified Dispenser (male) from June 1 for three or four months. Apply, by letter, giving all particulars of experience, salary, etc., to the Manager, 145 New Bond Street, W.1.

THE TEN ACRES AND STIRCHLEY CO-OPERATIVE SOCIETY, LTD., invite applications for the position of Manager of a new Chemistry and Drug Department; applicants must be qualified Chemists and possess a general knowledge of the Retail business. Applications to be made by letter, giving particulars of qualifications and experience, also stating age and wages required. Registered Office, Umberslade Road, Stirchley, Birmingham.

THOMPSON & CAPPER, LTD., require a qualified Locum for about eight weeks from July 15 or 14 to September 8 for their branches at Bradford, Leeds and Sheffield; also an unqualified Locum for their Huddersfield branch from August 6 until September 1; and an unqualified Locum for their Bradford branch from July 30 until August 25.

UNQUALIFIED Assistant or qualified Junior for old-established country business; smart appearance and good address; must be competent Salesman; single man preferred. Apply, stating age, salary, experience, and enclosing photo, to J. C. Pugh, M.P.S., F.S.M.C., 16 Broad Street, Welshpool.

UNQUALIFIED Assistant required, age 23-30, experienced in Dispensing and Window-dressing and a good Salesman. Apply to 125/386, Office of this Paper.

WANTED, elderly Qualified Chemist; full or part time; easy berth. 126/399, Office of this Paper.

YOUNG qualified man required as Assistant in good-class Retail and Dispensing business. Usual particulars to Manager, Edwards & Son, Chemists, Godalming, Surrey.

YOUNG qualified Locum required for small business in Midlands, June 18-July 2 inclusive. State particulars and salary required. 107/21, Office of this Paper.

£5 10s. AND COMMISSION.—Qualified Manager required immediately for high-class business in centre of Birmingham; only first-class Salesman with modern ideas of Window-dressing, etc., will be considered. Give full particulars of experience, and also state age and when at liberty. 105/22, Office of this Paper.

WHOLESALE.

A FIRM of Manufacturing Chemists in North of England have a vacancy for a Pharmacist for duties under the Dangerous Drugs Act; a young man seeking permanent employment in the Wholesale preferred. Applicants should state age, previous employment, salary required, etc., and should forward a photograph if possible. Apply 125/389, Office of this Paper.

A N opportunity occurs for a smart, ambitious young man (qualified preferred) to take charge of the distributing end of a Wholesale business; thorough knowledge of Drugs and ability to handle a staff are chief essentials. Please give full particulars of experience, age, salary required, in first letter. "Prospects," 126/394, Office of this Paper.

FULL-TIME Representative required for Southern Counties; good connection handed over to first-class man; experience with Chemists in area; Toilets; salary, expenses and commission; good Commission Man would also be entertained. 106/22, Office of this Paper.

L ONDON Manufacturing Chemists (Packed Goods and Pharmaceuticals) require all-time Representative for South-West England (Hampshire, Dorset, Wilts, Somerset, Devonshire, Cornwall), connection desirable, to build up already growing business. State full particulars in first letter. 104/5, Office of this Paper.

M ANUFACTURERS of Toilet Preparations and Powder Puffs require Representatives on commission basis. State territory and particulars to 105/31, Office of this Paper.

OLD-ESTABLISHED firm require Representatives for Lancashire, Scotland and Ireland; salary and commission; applicants must have sound connection among Wholesale Drug-gists. Write Box 56, Frost-Smith Adv. Service, 64 Finsbury Pavement, E.C.2.

OLD-ESTABLISHED and well-known firm offer a valuable side line commission to Representatives with established connections. 125/392, Office of this Paper.

OLD-ESTABLISHED Toilet and Perfumery Firm require Representatives immediately for London, Scotland, Northern Ireland and I.F.S.; commission and part expenses. 125/390, Office of this Paper.

REPRESENTATIVE, with established connection, wanted for Bristol-Cardiff district for Toilet Brushes, all kinds; part expenses and good commission. 126/395, Office of this Paper.

REPRESENTATIVES required for London and provinces by London Wholesalers of Chemists' Sundries and Fancy Goods, who are sole agents for well-known Perfume Manufacturer; applicants must have connection with Chemists, Hairdressers and Stores; good references and own car essential. Apply, stating full particulars, to P.C.B. 25/21, Office of this Paper.

TRAVELLERS required to carry as an additional line attractively packed medicinal Bath Preparation; the line is one of proved efficacy and has been on the market for some time; only keen men with established connections and real selling ability need apply; territories open: London, Midlands, Yorks. and Lancs. "B.O." 126/398, Office of this Paper.

WANTED.

WHOLESALE AND MANUFACTURING.—An old-established and well-known house in the North requires the services of a well-educated young Pharmacist. Preference will be given to a practical man who possesses a Science Degree and has had some experience in a Manufacturing Laboratory.

The post has prospects of advancement, and only those well qualified for the position should apply.

Replies will be treated in strict confidence, and all not acknowledged within 14 days are respectfully declined.

Reply to 126/393, Office of this Paper.

WHANTED by provincial Wholesale House capable Assistant as Checker in Dispatch Department. Apply, with full particulars of experience and age, to 126/401, Office of this Paper.

SITUATIONS WANTED.

RETAIL. [HOME.]

A.A.A. —LOCUM; experienced; middle-aged; abstainer; take charge; moderate terms; disengaged onward; booking dates; anywhere. "Pharmacist," BM/ZP6N, London, W.C.1.

A.A.A. —RIGHT-HAND man, conscientious, highly recommended, desires post; abstainer; married; disengaged; salary moderate; offers invited. "Aspirin," 24 Clifton Hill, Brighton.

A1 COUNTERMAN, Dispenser, Window-dresser, Truss-fitter; good all-round experience; well recommended. "Unqualified," 51 Norlington Road, Leytonstone, E.11.

A CAPABLE, qualified man; fully experienced, active and competent; permanency or Locum; disengaged. "Chemist," 85 Lancaster Road, Leytonstone, E.11.

A DISPENSER (lady), Hall certificate, desires post, London district; five years' experience. Carden, 12 Lillian Avenue, Acton, W.

A PHARMACIST desires a position in the West-End or round about; thoroughly reliable, trustworthy and well recommended, with West-End and Continental experience; capable of taking charge. Please "phone Clerkenwell 4575, or write "Farmacista," 11 St. Mary's Road, Canonbury, N.1.

A N experienced Chemist, registered, open for Locum or part-time; moderate salary. "Pharmacist," 13 Disraeli Road, W.5.

AS Manager or Locum; experienced; good Salesman and business builder; Drug Stores preferred. "G." 130 Scott-Ellis Gardens, N.W.8.

ASISTANT; 43; unqualified; tall; single; disengaged; Dispensing, Counter, Photography; good references. Harris, 24 Link Road, Edgbaston, Birmingham.

ASISTANT; unqualified; temporary or permanent; experienced and capable; Dispensing, Counter and Photographic; good reference. "L. S. M." 10 Orb Street, London, S.E.17.

ASISTANT requires post as Locum, or manage Drug Stores; good all-round experience; Southern Counties preferred; good references. Wood, 56 Marlborough Road, Dorking, Surrey.

ASISTANT; age 20; tall; Part I; City experience; good references; disengaged; terms. K. C. Gilbert, "Fairlawn," Heathfield Road, Wavertree, Liverpool.

ASISTANT; unqualified; Locum or permanency; 30 years' experience; trustworthy; reliable; good references; disengaged; accustomed taking charge. Bagshaw, Park Square, Newport, Mon.

A SSISTANT; unqualified; reliable; 20 years' experience; 6½ and 8 years fast two references; disengaged. "S." 46 Maybury Gardens, Willesden Green, N.W.10.

A SSISTANT; unqualified; experienced; Locum or permanent; can manage; town or country; disengaged except from June 4 to 30. "Radix," 72 Tremadoc Road, Clapham, S.W.4.

A SSISTANT; unqualified; temporary or permanent; capable and experienced; Dispensing, Counter and Photo; or would manage Drug Store. P.C.B. 25/38, Office of this Paper.

A SSISTANT (24), referred Part II subject, desires season engagement; tall; good all-round experience. "Quercus," 19 Manchester Road, Southport.

A SSISTANT; thoroughly experienced; Dispensing, Counter, Photography; energetic; good reference; unqualified. "K." 62 Blenheim Road, East Ham, E.6.

A SSISTANT; unqualified; 21; thoroughly experienced; Counter, Dispensing, Photographic, etc.; disengaged May 26. Williams, 46 Holly Road, Handsworth, Birmingham.

A SSISTANT; good varied experience; town and country; references; Prescriber, Dispenser; disengaged. "Rhei," Eyreton, St Nicholas Street, Norton, Malton.

A SSISTANT, 32, married, desires engagement; 13 years' experience; good-class Retail, Dispensing and Photographic business, preferably with living accommodation, but not essential. Andrews, 101 Boundary Road, N.W.8.

A SSISTANT, 35; disengaged; speaks Italian and French; 14 years' Continental and West-End experience; excellent references; London preferred. P.C.B. 26/15, Office of this Paper.

A SSISTANT, lady, referred Part II, desires position in high-class Pharmacy, or with Doctor; London experience. 107/38, Office of this Paper.

B ESSIE M. PEAKE, M.P.S., experienced Locum; excellent references; free from May 19. 9 Tunstall Terrace, Sunderland.

C HELTENHAM OR DISTRICT.—Lady Dispenser (Hall qualification) desires post; part-time essential. Lea, "Stonyhurst," Churchdown, Glos.

D ISENGAGED to June 1 inclusive and after June 30; booked June; former employer several occasions, who will kindly give reference; holiday booked if not suited before. "Advertiser," 20 Gordon Grove, Camberwell.

FREE May 28 to June 16, July 2 to 16; town or country. "Locum," 259 Camberwell New Road, S.E.5.

I AM 24, single, qualified, and smart appearance; I can sell, dress windows, dispense, and am an untiring worker; I desire a Store or West-End position, with opportunities for advancement, and commanding a respectable salary. Do you want me? 105/19, Office of this Paper.

J UNIOR; young; tall; excellent reference; 4 years' apprenticeship; good experience, Dispensing, Counter, Retail, Photographic, Window-dressing; disengaged; Leeds or district preferred, not essential. Harrison, 86 Clarendon Road, Morecambe.

J UNIOR Assistant; age 20; Counter, Photographic, Window-dressing, Dispensing; best references. D. McCarthy, 31 Woodfield Road, Paddington.

J UNIOR; 21; first-class Dispensing experience; good references; disengaged. Apply C. Hunter, "Greenwood," Cuckfield, Sussex.

L ADY; 25; disengaged; 8 years' Counter, Stock, Dispensing, Photographic sales experience. Williams, 62 King George's Avenue, Leiston, Suffolk.

L ADY, young (Minor qualification and all-round experience), desires permanency; within reach of London; Assistant or Manageress; trustworthy. 105/8, Office of this Paper.

L ADY, qualified, with extensive experience in Retail Pharmacy, desires position with high-class Chemist. 105/39, Office of this Paper.

L ADY Dispenser (Hall) requires post, temporary or permanent; 6 years' Dispensing experience; disengaged June 1. H. Fraser, 16 Deauville Court, Clapham Park, London.

L ADY Assistant; 19; 3 years' experience; permanency or season; disengaged when suited. D. Hawley, 83 Winchcombe Street, Cheltenham.

L ADY Assistant, 25, Hall certificate; over 7 years' experience; Dispensing, Counter, etc.; thoroughly reliable. 106/54, Office of this Paper.

L IVE, experienced, qualified; any position, Photographic, Agricultural, or Dispensing; disengaged; £4 weekly. Street, 148 Hitchin Road, Biggleswade, Beds.

OCUM or season; seaside or country; experienced Dispenser and all-round man; disengaged May 26. Benson, 4 Sandra Road, South Woodford, Essex.

OCUM; unqualified; middle-aged; thoroughly experienced; disengaged May 28. "Locum," 65 Birrell Road, Nottham.

OCUM; free Whitsuntide; given up own business; experienced; booking dates; easy terms; abstainer; anywhere. The Pharmacy, Rodley, Leeds.

OCUM, M.P.S., experienced, free May 21 for week, July 16 fortnight, August 13 ditto. "Chemist," 112 Sumatra d, N.W.6.

OCUM; free last week June; all July; fully experienced; Coast town preferred. "M.P.S.," 28 Nutfield Road, Brutton Heath.

OCUM; M.P.S.; good Salesman and Dispenser; well acquainted with Photography; free July 16-28. BM/ZVPE, don, W.C.1.

OCUM; qualified; experienced; Counter, Dispensing and Photography. "Chemist," 32 Fairmount Road, Brixton S.W.2.

OCUM; or Emergency Relief, disengaged; good references; moderate salary; reliable; thoroughly experienced. 24 Hall Street, Bow, E.

OCUM, qualified, best experience, now disengaged till July 8th, afterwards from August 4th; £5 5s. per week; doors. Apply 106/10, Office of this Paper.

MANAGER or Locum; experienced all branches; trustworthy; returns kept up. A. Frost, M.P.S., 50 Brondesbury Villas, W.5.

P.S., 24, requires permanency as Assistant or Branch Manager; tall (6 ft.); energetic; excellent references. 104/1, Office of this Paper.

P.S., 30; 5 ft. 8 in.; smart; reliable; willing; good references; permanency (London only) or Locum. Virgins, 161 Camden Road, London, N.W.1.

P.S., F.B.O.A., J.C.Q.O., disengaged, young, well educated, all-round experience, excellent references, desires situation; Bolton, Preston, Blackpool districts erred. 106/40, Office of this Paper.

MANAGER or Locum; qualified; Windows, Sales, Dispensing, Prescribing. "Chemist," 86 Chelmsford Road, Southford, E.18.

ARMACIST, middle-aged, abstainer, all-round experience, seeks berth; near London preferred. 105/4, Office of this er.

ALIFIED; 34; tall; single; energetic; good Window-dresser; all-round experience; Midlands preferred; Locum ider; disengaged June 2. B. Mills, 62 Cowper Street, Hampton.

ALIFIED, 36, disengaged, thoroughly experienced, seeks post as Manager, Assistant, Partner or Locum. Stephens, onway View, Harehills, Leeds.

ALIFIED Manager; 26; West-End experience; at liberty July 2-16; will do Locum; salary required £6 per week. 38, Office of this Paper.

ALIFIED lady, young, requires post in high-class Pharmacy, preferably near London; all-round experience; able and trustworthy. 105/80, Office of this Paper.

ALIFIED; capable and conscientious; able Dispenser, good Counterman, having a sound knowledge of Photography. mith, 72 Jeffreys Road, Clapham, S.W.4.

ALIFIED man seeks position in London in which qualification is necessary, but full-time attendance not required. 38/26/7, Office of this Paper.

ALIFIED, 24, desires post, South Yorkshire or Midlands; easy reach of Doncaster preferred. "Pharmacist," 25 on Road, Ecclesall, Sheffield.

ALIFIED, 22, requires permanency; Yorkshire (Harrogate) preferred; excellent references; disengaged May 19. M.P.S., 20 Wellington Crescent, Shipley, Yorks.

ALIFIED, 22, tall; free June 4; good experience in high-class business; London preferred, or seaside town. 106/35, of this Paper.

ALIFIED, young, energetic; good references; F.B.O.A.; temporary or permanent; disengaged. 106/400, Office of Paper.

ALIFIED Chemist requires situation; young, energetic, knowledge Photography, competent Window-dresser; disengaged; reference and particulars on application. 107/2, of this Paper.

QUALIFIED (25) desires position as Branch Manager; 7 years' good all-round experience, including Photography; Manchester district preferred, but not essential 107/7, Office of this Paper.

SCOT; qualified; 22; tall; capable and trustworthy; abstainer; good all-round experience; 5 years West-End; free June 105/27, Office of this Paper.

SEASON or Locum engagements wanted until middle of September; qualified (April); good Dispensing and Counter experience; South Coast preferred, but not essential. Price, 82 Church Street, Kingsbridge, Devon.

SEASON, free June 11th, lady Assistant; Hall certificate; 10 years' experience Counter, Dispensing, Window-dressing, etc. 107/6, Office of this Paper.

UNQUALIFIED Assistant; 22; tall; good appearance; 19 months' all-round experience after thorough apprenticeship; disengaged; highly recommended; Birmingham district preferred. Harding, "Devonia," Haywards Road, Cheltenham.

UNQUALIFIED; 8 years' experience, Dispensing, Counter, Photographic, Window Display; undeniable references. Green, 11 Albion Street, South Wigston, near Leicester.

UNQUALIFIED, 25, seeks berth; quick Dispenser; good references; interview preferred. Browning, Bungalow, Ridge Top, Wollaston, near Stourbridge.

UNQUALIFIED Assistant, 25, seeks post; seaside and town experience; good references; disengaged. "W.," 4 Wood Street, Cuxton, Rochester, Kent.

VACANT dates, June 17 to 30, July 16 to 28; highest references. "Locum," c/o Caine, Chemist, Brecknock Road, N.19.

WINDOW-DRESSER desires daily engagements; London district; 10s. per day. "E. J.," 94 Newlands Road, Norbury, S.W.16.

WHOLESALE.

ADVERTISER seeks post as Representative to a reputable firm; over 8 years' experience in every branch of the business, including Photography; own car; Public School education; excellent address. 105/23, Office of this Paper.

AMBITION young man seeks post with reliable firm as Representative; energetic, good Salesman; own car; excellent references; North Wales preferred, not essential; please state terms. 106/39, Office of this Paper.

CHEMIST and Druggist wishes to represent Wholesale House; home and Colonial experience; excellent references. P.C.B. 25/22, Office of this Paper.

ESSENCES, Essential Oils and Powder Colours; Clerk with good knowledge of shipping and home trade, requires position; good testimonials. "L.," 28 Blakenham Road, S.W.17.

GENERAL Works Organiser offers services for agreed period of time; expeditious methods of working appliances, incorporating inexpensive uses of conveyors, chutes, etc.; higher class bottles, cartons; by experience greater output with two-thirds staff. Strictest secrecy observed and all interview expenses borne by me. Apply 105/9, Office of this Paper.

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REPRESENTATIVE, with connection London, East and South Coast, Stores, Chemists and Hairdressers, requires an additional line; commission and part expenses; own car. "P. B.," 34 Granville Road, Stroud Green, N.4.

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FOR Sale, Ointment Mill, Wilkinson's "Speedy," for power; had very little use. What offers? 105/16, Office of this Paper.

FOR Sale, Chemist's Fixtures, including Counters, Dispensing Screen, Wall Shelving, and Boxes; cheap. Apply Alfred Shankland, 9 Queen Street, Cardiff.

FOR Sale, Stanley Microscope, 3 objectives, complete in mahogany case, £10; smaller one, nearly new, high power, in case, £4; Haensch half-shadow Polaroscope, complete with 3 tubes and lamp, £12; or near offers. Also small lots Fine Chemicals cheap. Mascar, 81 Chancery Lane, W.C.2.

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CHEMISTS' FITTINGS.—Drug Fittings, Wall Cases, Counter Cases, Salesman's Cases, Dispensing Screens, Serving Counters, Perfume Cases, Counter Drawers at low prices. Before you decide send to GEORGE COOK, Chemists' Fitter, 27 Macclesfield Street, City Road, E.C.1.

FOR Sale, No. 2 "Stag" Ball Mill, by Edgar Allen, London area; nearly new; offers and inspection invited. P.C.B. 26/6, Office of this Paper.

FOR SALE, Filling Machine for Powders and Pastes, nearly new; also Gardner type Mixing Machine, complete, 100 lbs. capacity; large and small Tableting Machines in perfect condition; can be inspected in London. Write for particulars to 107/39, Office of this Paper.

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